CA SOLVE:FTS

Installation Guide

Release 12.1



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CA Technologies Product References

This document references the following CA Technologies products:

- CA SOLVE:FTS
- CA NetMaster® Network Management for TCP/IP (CA NetMaster NM for TCP/IP)
- CA NetMaster® File Transfer Management (CA NetMaster FTM)
- CA NetMaster® Network Management for SNA (CA NetMaster NM for SNA)
- CA NetMaster® Network Automation (CA NetMaster NA)
- CA NetSpy[™] Network Performance (CA NetSpy)
- CA Network and Systems Management NetMaster® Option (CA NSM NetMaster Option)
- CA Network and Systems Management (Unicenter NSM)
- CA NetMaster® Socket Management for CICS (CA NetMaster SM for CICS)
- CA Common Services for z/OS
- CA Common Inventory Service
- CA Auditor for z/OS (CA Auditor)
- CA ACF2[™] for z/OS
- CA Top Secret® for z/OS
- CA SYSVIEW® Performance Management (CA SYSVIEW)

Contact CA Technologies

Contact CA Support

For your convenience, CA Technologies provides one site where you can access the information that you need for your Home Office, Small Business, and Enterprise CA Technologies products. At http://ca.com/support, you can access the following resources:

- Online and telephone contact information for technical assistance and customer services
- Information about user communities and forums
- Product and documentation downloads
- CA Support policies and guidelines
- Other helpful resources appropriate for your product

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Chapter 1: Overview

This guide describes how to install and implement CA SOLVE:FTS.

This section contains the following topics:

<u>Audience</u> (see page 9) How the Installation Process Works (see page 9)

Audience

Readers of this book require knowledge in the following areas:

- Job control language (JCL)
- TSO/ISPF
- z/OS environment and installing software in this environment
- Your organization's IT environment, enterprise structure, and region structure

You work with the following personnel:

- Systems programmer for z/OS, VTAM, and TCP/IP definitions
- Security administrator, for library and started task access authority
- Storage Management Subsystem (SMS) or storage administrator, for direct access storage device (DASD) allocations

How the Installation Process Works

CA Technologies has standardized product installations across all mainframe products. Installation uses the following process:

- Acquisition—Transports the software to your z/OS system.
- Installation using SMP/E—Optionally creates a CSI environment and runs the RECEIVE, APPLY and ACCEPT steps. The software is untailored.
- Deployment—Copies the target libraries to another system or LPAR.
- Configuration—Creates customized load modules, bringing the software to an executable state.

CA MSM provides a web-based interface to make the standardized installation process easier. Using CA MSM, someone with limited knowledge of JCL and SMP/E can install a product.

Note: If you do not have CA MSM, you can download it from the Download Center at the CA Support Online website. Follow the installation instructions in the CA Mainframe Software Manager documentation bookshelf on the CA Mainframe Software Manager product page. The standardized installation process can also be completed manually.

To install your product, do the following tasks:

- 1. Prepare for the installation by confirming that your site meets all installation requirements.
- 2. Use one of the following methods to acquire the product:
 - Download the software from CSO using CA MSM (see page 20).
 - Download the software from CSO using Pax-Enhanced Electronic Software Delivery (ESD).
 - Order a tape.
- 3. Perform an SMP/E installation using one of the following methods:
 - If you used CA MSM to acquire the product, start the SMP/E step from the SMP/E Environments tab in CA MSM.
 - If you used ESD to acquire the product, you can install the product in the following ways:
 - Install the product manually.
 - Use the Insert New Product option in CA MSM to complete the SMP/E installation.
 - If you used a <u>tape</u> (see page 59), install the product manually.

Note: If a CA Recommended Service (CA RS) package is published for your product, install it before continuing with deployment.

- 4. Deploy the target libraries using one of the following methods:
 - If you are using CA MSM, deployment is required; it is a prerequisite for configuration.
 - If you are using a manual process, deployment is an optional step.

Note: Deployment is considered part of starting your product.

5. Configure your product using CA MSM or manually.

Note: Configuration is considered part of starting your product.

Chapter 2: Preparing for Installation

This section contains the following topics:

Multiple Product Installation and Setup (see page 11)

Software Requirements (see page 11)

CA Common Services Requirements (see page 11)

Security Requirements (see page 12)

Storage Requirements (see page 12)

How CA LMP Statements Are Coded (see page 13)

Worksheets (see page 16)

Migration Preparation (see page 16)

Multiple Product Installation and Setup

You can install multiple products in the CA Mainframe Network Management family based on what you have purchased. You can also set up multiple products in one region.

Therefore, you can perform the steps in the *Installation Guides* for these products concurrently as you install and set them up.

Software Requirements

Ensure that you have the appropriate operating environment. Your system must have a currently-supported version of z/OS.

CA Common Services Requirements

Your system must have a currently supported version of CA Common Services for z/OS. The CA Common Services load library must be accessible to your product address space through the JCL STEPLIB or system LNKLST.

Note: The latest version of CA Common Services is included in your package.

The following services are used with CA SOLVE:FTS:

- CAIRIM
- CA LMP

Note: If other CA products are installed at your site, some of these services may already be installed.

Security Requirements

While you are preparing your product for startup, you need access to the following security-controlled data sets or libraries on your system:

- 1. Ensure that you have READ authority to data sets with a prefix of CAI.*. All data sets on the product tapes use this prefix.
- 2. Ensure that you have UPDATE authority to the following data sets or libraries:
 - Started task PROCLIB that stores the run-time JCL, for example, SYS1.PROCLIB
 - SYS1.PARMLIB
 - SYS1.VTAMLST or the library that stores VTAM application definitions and VTAM initialization parameters
 - SYS1.VTAMLIB for terminal mode table definitions
 - Master catalog, a requirement if you intend to define alias entries for data set prefixes
- 3. Update the following initialization parameter data set members if necessary:
 - SYS1.PARMLIB(IEAAPFxx) to APF-authorize your load libraries
 - SYS1.PARMLIB(PROGxx) if you want CA Auditor for z/OS or CA Common Inventory Service to know of your products for your auditors
- 4. Ensure that the user IDs associated with your started tasks can access the run-time data sets created by the installation and setup processes (UPDATE authority required).

Storage Requirements

CA SOLVE:FTS has the following 3390 DASD space requirements:

- If you are using CA MSM or ESD, the following z/OS UNIX file system space is required for the downloaded and unpacked files: 174 MB.
- For installation and setup, the following spaces are required:
 - Installation = 932 cylinders
 - IBM System Modification Program Extended (SMP/E) libraries = 1213 cylinders
 - Setup = 792 cylinders
 - Setup temporary work area = 1400 cylinders

How CA LMP Statements Are Coded

Before starting this product, you must code CA LMP statements for product license authorization.

To code CA LMP statements, do the following:

- 1. Install CAIRIM.
- 2. Activate LMP.
- 3. Add your product license codes to the LMP statements.
- 4. Place the LMP statements in the KEYS member of the PPOPTION data set.

Note: The KEYS member of the PPOPTION data set is specified in the CAS9 JCL procedure. For more information, see the *CA Common Services Administration Guide*.

KEYS Member—Add Execution Key

You must add the CA LMP execution key, provided on your product key certificate, to the CAIRIM parameters to ensure proper initialization. To define a CA LMP execution key to the CAIRIM parameters, modify the KEYS member in CAI.PPOPTION (CA Common Services for z/OS r11) or CAI.CAIOPTN (CA Common Services for z/OS r12).

This sample parameter structure for KEYS member has the following format:

```
PROD(pp) DATE(ddmmmyy) CPU(tttt-mmmm/ssssss)
LMPCODE(kkkkkkkkkkkkkkkkk)
```

Parameter definitions are as follows:

PROD(pp)

Specifies the two-character product code. This code agrees with the product code already in use by the CAIRIM initialization parameters for any earlier releases of this product (if applicable).

ZI is the value for your product.

DATE(ddmmmyy)

Specifies the CA LMP licensing agreement expiration date, for example, 13MAR12.

CPU(tttt-mmmm/ssssss)

tttt

Specifies the CPU type on which CA LMP is to run, for example, 3090.

-mmmm

Specifies the CPU model on which CA LMP is to run, for example, 600.

Note: If the CPU type and or model require fewer than four characters, blank spaces are inserted for the unused characters.

/ssssss

Specifies the serial number of the CPU on which CA LMP is to run.

LMPCODE(kkkkkkkkkkkkkkkkk)

Specifies the execution key (kkkkkkkkkkkkkkkkk) needed to run CA LMP. The key certificate shipped with each CA LMP software solution provides this CA LMP execution key.

Example: Add CA LMP Execution Key

This example shows a control statement for the CA LMP execution software parameter.

PROD(ZI) DATE(27JUN12) CPU(3090-600/370623) LMPCODE(52H2K06130Z7RZD6)

In this example, with your product running on the specified CPU, the CA LMP licensing agreement will expire on June 27, 2012. The product code and execution key values are different when you install your product at your site.

Note: For a full description of the procedure for defining the CA LMP execution key to the CAIRIM parameters and further details about the features and associated utilities of CAIRIM, see the *CA Common Services for z/OS Administrator Guide*.

CA LMP Key Certificate

Examine the CA License Managed Program (CA LMP) key certificate. Your certificate contains the following information:

Product Name

Defines the trademarked or registered name of your product as licensed for the designated site and CPUs.

Product Code

Defines a two-character code that corresponds to the product.

Supplement

Defines the reference number of your license for a particular facility and has the following format:

nnnnnn-nnn

This format differs slightly inside and outside North America and, in some cases, the reference number may not be provided at all.

CPU ID

Defines the code that identifies the specific CPU for which installation of this product is valid.

Execution Key

Defines an encrypted code required by CA LMP for installing your product. During installation, it is referred to as the LMP code.

Expiration Date

Defines the date your license expires and has the following format:

ddmmmyy

Example: 21Mar12

Technical Contact

Defines the name of the designated technical contact at your site who is responsible for the installation and maintenance of your product. CA addresses all CA LMP correspondence to this person.

MIS Director

Defines the name of the Director of MIS or the person who performs such a function at your site. If the title but not the name of the individual is indicated on the certificate, supply the actual name when correcting and verifying the certificate.

CPU Location

Defines the address of the building in which the CPU is installed.

Worksheets

The <u>preparation worksheets</u> (see page 97) help you gather the required information before you install and configure (or set up) the product.

The <u>post-installation worksheet</u> (see page 105) lets you record the names of the data sets created by the installation and configuration process for future reference.

Migration Preparation

Some migration tasks require actions on the region that you are migrating from. If you are planning to reuse resources for your new product region, such as access control block (ACB) name and started task name, make sure that you perform these tasks before you shut down your existing region for the last time.

More information:

Completing Migration (see page 93)

Parameter Group Values

If you do not use a region initialization (INI) file and want to migrate your previous parameter group values to your new product region, record these values now. You use them to customize the product region.

How to Migrate Your Initialization File

If you have an existing region INI file from r11 onwards, you can migrate the file for use in this release.

Important! Review and update the file to ensure that names such as ACBs, data sets, and interfaces are suitable for the new region.

The process of migrating your INI file consists of the following steps:

- 1. If you have not already generated your INI file, generate the INI file in the previous region.
- 2. Configure the file by updating the data set names used, and checking the ACB and various interface names. Alternatively, you can delete the configuration section for a whole parameter group to let the defaults for the new region be used.

Note: During region initialization, the INI file is applied by passing all parameter values to the INI file procedure and letting the procedure overwrite the values as needed. If you do not want to overwrite the settings for a parameter group or individual parameter, comment out or delete the statements in the INI file that contains the group or parameter. Setting the value of a parameter to null sets the parameter value to null, which may not be what you wanted.

3. Start the new region using the INI file by editing your RUNSYSIN.

After you start the region, you can check it and regenerate the INI if necessary.

Important! Generation of the INI file replaces custom code, such as code that includes MVS system symbols, with the actual values. If you regenerate the file, reapply the custom code.

Note: For more information about setting up the initialization file, see the *Administration Guide*.

Chapter 3: Installing Your Product Using CA MSM

Use the procedures in this section to manage your product using CA MSM. Managing includes acquiring, installing, maintaining, and deploying products, setting system registries, and managing your CSIs. These procedures assume that you have already installed and configured CA MSM.

Note: If you do not have CA MSM, you can download it from the Download Center at the CA Support Online website. Follow the installation instructions in the CA Mainframe Software Manager documentation bookshelf on the CA Mainframe Software Manager product page.

When you have completed the procedures in this section, go to Configuring Your Product.

This section contains the following topics:

<u>How to Use CA MSM: Scenarios</u> (see page 20)

<u>Access CA MSM Using the Web-Based Interface</u> (see page 28)

Important! During installation, use the CAIT76 target zone and the CAID76 distribution zone. The setup process requires that these zone names be used.

These topics provide information to get you started managing your product using CA MSM. You can use the online help included in CA MSM to get additional information.

Before using these topics, you must already have CA MSM installed at your site. If you do not have CA MSM installed, you can download it from the Download Center at the-ca-support Online website, which also contains links to the complete documentation for CA MSM.

How to Use CA MSM: Scenarios

Imagine that your organization has started using CA MSM to simplify the installation of CA Technologies products and unify their management. You have also licensed a new CA Technologies product. In addition, you have a number of existing SMP/E environments from previously installed CA Technologies products.

You can use the following scenarios to guide you through the process:

- 1. Acquire the new product (see page 20).
- 2. <u>Install the new product</u> (see page 21).
- 3. <u>Maintain products already installed in your environment</u> (see page 23).
- 4. Set up the CA MSM system registry (see page 24).
- 5. <u>Deploy the product to your target systems</u> (see page 26).
- 6. Configure the deployed product to your target systems (see page 27).

How to Acquire a Product

The *Product Acquisition Service (PAS)* facilitates the acquisition of mainframe products and the service for those products, such as program temporary fixes (PTFs). The PAS retrieves information about products to which your site is entitled. Then it records these entitlements in a software inventory that is maintained on your driving system.

You can use the PAS component of CA MSM to acquire a CA Technologies product.

You perform the following high-level tasks to acquire a product using CA MSM:

- 1. Set up a CA Support Online account.
 - To use CA MSM to acquire or download a product, you must have a CA Support Online account. If you do not have an account, you can create one on the CA Support Online website.
- 2. Determine the CA MSM URL for your site.

To <u>access CA MSM</u> (see page 28), you require its URL. You can get the URL from your site CA MSM administrator and log in using your z/OS credentials. When you log in for the first time, you are prompted to create a CA MSM account with your credentials for <u>the CA Support Online website</u>. This account enables you to download product packages.

3. Log in to CA MSM and go to the Software Catalog page to locate the product that you want to manage.

After you log in to CA MSM, you can see the products to which your organization is entitled on the Software Catalog tab.

If you cannot find the product that you want to acquire, update the catalog. CA MSM refreshes the catalog through <u>the CA Support Online website</u> using the site IDs associated with your credentials for the CA Support Online website.

4. Download the product installation packages.

After you find your product in the catalog, you can download the product installation packages.

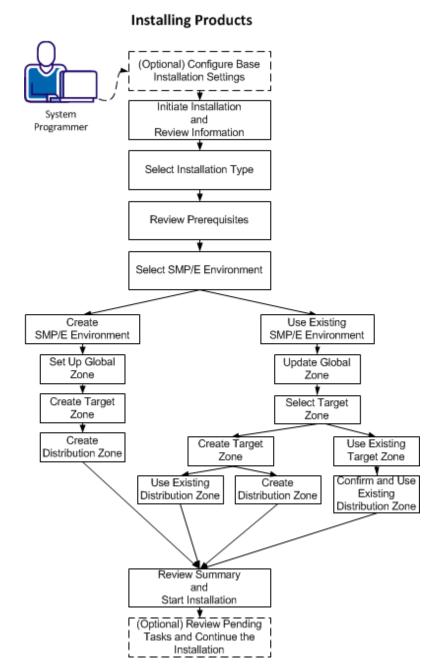
CA MSM downloads (acquires) the packages (including any maintenance packages) from the CA FTP site.

After the acquisition process completes, the product is ready for you to install or maintain.

How to Install a Product

The Software Installation Service (SIS) facilitates the installation and maintenance of mainframe products in the software inventory of the driving system. This facilitation includes browsing downloaded software packages, managing SMP/E consolidated software inventories on the driving system, and automating installation tasks.

You can use the SIS component of CA MSM to install a CA Technologies product.



You perform the following high-level tasks to install a product using CA MSM:

- 1. (Optional) Configure base installation settings.
- 2. Initiate product installation and review product information.
- 3. Select an installation type.
- 4. Review installation prerequisites if any are presented.

- 5. Take *one* of the following steps to select an SMP/E environment:
 - Create an SMP/E environment:
 - a. Set up the global zone.
 - b. Create a target zone.
 - c. Create a distribution zone.
 - Use an existing SMP/E environment from your working set:
 - a. Update the global zone.
 - b. Set up the target zone: Either create a target zone or use an existing target zone.
 - c. Set up the distribution zone: Either create a distribution zone or use an existing distribution zone.

Note: If you install a product or its components into an existing target or distribution zone, older versions are deleted from the zone and associated data sets. We recommend that you use new target and distribution zones for this installation so that you can apply maintenance to your current version, if necessary.

- 6. Review the installation summary and start the installation.
- 7. (Optional) Review pending tasks for the SMP/E environment where you are installing your product. Continue the installation, if applicable.

After the installation process completes, check for and install available product maintenance. The product is ready for you to deploy. Sometimes there are other steps to perform manually outside of CA MSM before beginning the deployment process.

More information:

How to Maintain Existing Products (see page 23)

How to Maintain Existing Products

You can migrate existing SMP/E environments into CA MSM to maintain all your installed products in a unified way from a single web-based interface.

You can use CA MSM to maintain a CA Technologies product.

You perform the following high-level tasks to maintain a product using CA MSM:

 Migrate the SMP/E environment to CA MSM to maintain an existing SMP/E environment in CA MSM.

During the migration, CA MSM stores information about the SMP/E environment in the database.

2. Download the latest maintenance for the installed product releases from the Software Catalog tab.

If you cannot find the required release, you can perform the following steps to download the maintenance:

- a. Add the release to the catalog manually.
- b. Update the release.
- 3. Apply the maintenance.

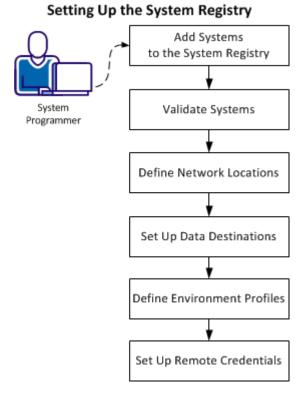
Note: You can also install maintenance to a particular SMP/E environment from the SMP/E Environments tab.

After the maintenance process completes, the product is ready for you to deploy. Sometimes there are other steps to perform manually outside of CA MSM before beginning the deployment process.

How to Set Up the System Registry

The *system registry* is a repository of variable data that all CA MSM managed products share. The system registry repository contains information about the systems that have been defined to CA MSM and selected as a target for deployments and configurations. You can create non-sysplex, sysplex, shared DASD cluster, and staging systems. You can maintain, validate, view, and delete a registered system and you can investigate a failed validation.

For each system that you register, there is one entry. Each entry consists of three categories of information: general, network locations, and data destinations.



You perform the following tasks to set up the system registry in CA MSM:

- 1. Add systems to the system registry.
- 2. Validate systems.
- 3. Define network locations.
- 4. Set up data destinations.
- 5. Define environment profiles.
- 6. Set up remote credentials.

Add and then validate each nonstaging system in the enterprise that you are deploying to, to the CA MSM system registry. You can only send a deployment to a validated system.

This process applies to each nonstaging system in your enterprise. For example, if you have five systems at your enterprise, then perform this process five times.

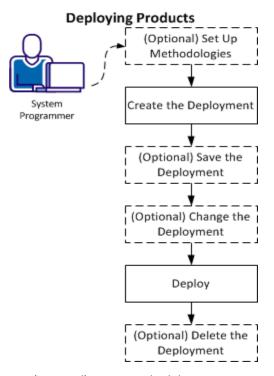
Note: After a system is validated, there is no need to validate it again. However, you can revalidate a system any time.

How to Deploy a Product

The *Software Deployment Service (SDS)* facilitates the mainframe product deployment from the software inventory of the driving system to the target system. This facilitation includes deploying installed products that are policy-driven with a set of appropriate transport mechanisms across a known topology.

You can use the SDS component of CA MSM to deploy a CA Technologies product that you have already acquired and installed.

You perform the following high-level tasks to deploy your products using CA MSM:



1. (Optional) Set up methodologies.

Note: You can also set up methodologies when creating a deployment.

- 2. Create the deployment.
- 3. (Optional) Save the deployment for editing and deploying later.
- 4. (Optional) Change the deployment: Add and edit systems, products, custom data sets, and methodologies.

- 5. Deploy:
 - a. Take a snapshot.
 - b. Transmit to target.
 - c. Deploy (unpack) to mainframe environment.
- 6. (Optional) Delete the deployment.

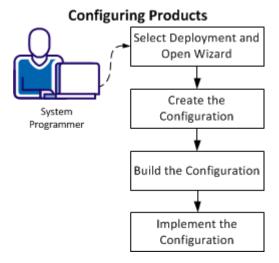
After the deployment process completes, the product is ready for you to configure. Sometimes there are other steps to perform manually outside of CA MSM before beginning the configuration process.

How to Configure a Product

The *Software Configuration Service (SCS)* facilitates the mainframe product configuration from the software inventory of the driving system to targeted z/OS operating systems.

You can use the SCS component of CA MSM to configure a CA Technologies product that you have already acquired, installed, and deployed.

You perform the following high-level tasks to configure your products using CA MSM:



- 1. From the Deployments tab, select a configurable deployment, select the associated product, and click Create Configuration to open the Configuration wizard.
- 2. Create the configuration by completing all the steps in the wizard:
 - a. Define a configuration name and select a target system.
 - b. Select configuration functions and options.
 - c. Define system preferences.
 - d. Create target settings.
 - e. Select and edit resources.
- 3. Build the configuration. The last step of the Configuration wizard lets you build the configuration. If needed, you can edit the configuration and can build the configuration again.
- 4. Implement the configuration. The implementation process in CA MSM guides you and provides detailed instructions to start, stop, and manage the steps of the implementation process.

After the configuration process completes, the product is ready for you to use. Sometimes there are other steps to perform manually outside of CA MSM.

Note: You cannot use CA MSM to configure a product to a staging system.

Access CA MSM Using the Web-Based Interface

You access CA MSM using the web-based interface.

You need the URL of CA MSM from the CA MSM administrator.

Follow these steps:

1. Start your web browser, and enter the access URL.

The login page appears.

Note: If the Notice and Consent Banner appears, read and confirm the provided information.

2. Enter your z/OS login user name and password.

The initial page appears. If you log in for the first time, you are prompted to define your account on <u>the CA Support Online website</u>.

Note: For more information about the interface, click the online help link at the top right corner of the page.

3. Click New.

You are prompted for the credentials to use on the CA Support Online website.

4. Specify the credentials, click OK, and then click Next.

You are prompted to review your user settings.

Note: These settings are available on the User Settings page.

5. Change the settings or keep the defaults, and then click Finish.

A dialog opens, which shows the progress of the configuration task. You can click Show Results to view the details of the actions in a finished task.

Important! If your site uses proxies, review your proxy credentials on the User Settings, Software Acquisition page.

Chapter 4: Installing Your Product from Pax-Enhanced ESD

This section contains the following topics:

How to Install a Product Using Pax-Enhanced ESD (see page 31)

Allocate and Mount a File System (see page 37)

Copy the Product Pax Files into Your USS Directory (see page 40)

<u>Create a Product Directory from the Pax File</u> (see page 45)

Copy Installation Files to z/OS Data Sets (see page 46)

Unload the Install Utility (see page 47)

Installation JCL (see page 48)

Clean Up the USS Directory (see page 50)

Maintenance (see page 51)

How to Install a Product Using Pax-Enhanced ESD

This section describes the Pax-Enhanced ESD process. We recommend that you read this overview and follow the entire procedure the first time you complete a Pax-Enhanced ESD installation. For experienced UNIX users, the *Pax-Enhanced ESD Quick Reference Guide* has sufficient information for subsequent installations.

Important! Downloading pax files for the SMP/E installation as part of the Pax-Enhanced ESD process requires write authority to the UNIX System Services (USS) directories used for the ESD process.

If you prefer not to involve all CA Technologies product installers with z/OS UNIX System Services, assign a group familiar with USS to perform Steps 1 through 4 and provide the list of the unpacked MVS data sets to the product installer. USS is not required for the actual SMP/E RECEIVE of the product or for any of the remaining installation steps.

To install files using Pax-Enhanced ESD, use the following process:

Allocate and mount the file system. This process requires a USS directory to receive
the pax file and to perform the unpack steps. We recommend that you allocate and
mount a file system dedicated to Pax-Enhanced ESD and create the directory in this
file system. Ensure that all users who will be working with pax files have write
authority to the directory.

- 2. Copy the product pax files into your USS directory. To download files, choose one of the following options:
 - Download a zip file from CA Support Online to your PC, unzip the file, and then upload the product pax files to your USS file system.
 - FTP the pax files from CA Support Online directly to your USS directory.

Note: Perform Steps 3 through 6 for each pax file that you upload to your USS directory.

3. Create a product directory from the pax file. Set the current working directory to the directory containing the pax file, and create a new directory in your USS directory by entering the following command:

```
pax -rvf pax-filename
```

- 4. Use the SMP/E GIMUNZIP utility to create z/OS installation data sets. The file UNZIPJCL in the directory created by the pax command in Step 3 contains a sample job to GIMUNZIP the installation package. Edit and submit the UNZIPJCL job.
- 5. Proceed with product installation. Consult product-specific documentation, including AREADME files and installation notes to complete the product installation.
- (Optional) Clean up the USS directory. Delete the pax file, the directory created by the pax command, all of the files in it, and the SMP/E RELFILES, SMPMCS, and HOLDDATA data sets.

More Information:

<u>USS Environment Setup</u> (see page 36)
<u>Allocate and Mount a File System</u> (see page 37)
<u>Copy the Product Pax Files into Your USS Directory</u> (see page 40)
<u>Create a Product Directory from the Pax File</u> (see page 45)
<u>Copy Installation Files to z/OS Data Sets</u> (see page 46)

How the Pax-Enhanced ESD Download Works

Important! To download pax files for the SMP/E installation as part of the Pax-Enhanced ESD process, you must have write authority to the UNIX System Services (USS) directories used for the ESD process and available USS file space before you start the procedures in this guide.

Use the following process to download files using Pax-Enhanced ESD:

- 1. Log in to https://support.ca.com/, and click Download Center.
 - The CA Support Online web page appears.
- 2. Under Download Center, select Products from the first drop-down list, and specify the product, release, and genlevel (if applicable), and click Go.
 - The CA Product Download window appears.
- 3. Download an entire CA Technologies product software package or individual pax files to your PC or mainframe. If you download a zip file, you must unzip it before continuing.

For both options, <u>The ESD Product Download Window</u> (see page 33) topic explains how the download interface works.

Note: For traditional installation downloads, see the *Traditional ESD User Guide*. Go to https://support.ca.com/, log in, and click Download Center. A link to the guide appears under the Download Help heading.

4. Perform the steps to install the product based on the product-specific steps.

The product is installed on the mainframe.

ESD Product Download Window

You can download CA Technologies product ESD packages multiple ways. Your choices depend on the size of the individual files and the number of files that you want to download. You can download the complete product with all components, or you can select individual pax and documentation files for your product or component.

The following illustration shows sample product files. The illustration lists all components of the product. You can use the Download Cart by selecting one or more components that you need, or selecting the check box for Add All to cart. If you prefer to immediately download a component, click the Download link.

CA Earl - MVS

- Pax Enhanced Electronic Software Delivery (ESD) Guide @
 Pax Enhanced Electronic Software Delivery (ESD) Quick Reference Guide @
 Traditional Electronic Software Delivery (ESD) Guide @
 Learn more about Using pkzip with your Downloaded Mainframe Products @
 Learn more about downloading components of CA product @
 Mounting ISO images with OpenVMS @

If you have comments or suggestions about CA product documentation, send a message to techpubs@ca.com.

Note: Related Published Solutions are available on the other results tab on this page. You must add these solutions to your Download Cart to include them with your product files for download.

🦙 View Download Cart

				□ Add All to cart	
Product Components				Add to cart	Download
CCS - LEGACY - ESD ONLY 140000AW030.pax.Z	14.0 /0000	07/06/2011	4.89MB		Download
CCS - MFNSM - ESD ONLY 140000AW040.pax.Z	14.0 /0000	07/06/2011	202.01MB		Download
CCS - BASE - ESD ONLY 140001AW010.pax.Z	14.1 /0000	06/05/2012	27.44MB		Download
CCS - OPTIONAL - ESD ONLY 140001AW020.pax.Z	14.1 /0000	06/05/2012	14.49MB		Download
CA EARL PRODUCT PACKAGE 610106AE000.pax.Z	6.1 /0106	10/30/2008	1.85MB		Download
EARL PIPPACK AEO61010600.pdf	6.1 /0106	01/29/2010	93.92KB		Download
CA EASYTRIEVE PRODUCT PACKAGE B60000ESA00.pax.Z	11.6 /0000	07/05/2011	6.12MB		Download
DATACOM/AD PROD INFO PACKET CAIE00000P0.pdf	14.0 /0000	06/01/2012	220.53KB		Download
DATACOM/AD XPRESS INSTALL				_	Demole and

Clicking the link for an individual component takes you to the Download Method page.

Download Method

Please choose a download method to complete your download request. Learn More

HTTP via Download Manager

This is the CA recommended method for download. The Download Manager allows you to download your files faster and more efficiently.

Download

HTTP via Internet Browser

If Download Manager cannot be used or fails to start you may access your file(s) via your internet browser.

<u>View File Link(s)</u> ⊞

FTP

This method allows you to download your file(s) via FTP from CA's content delivery network or via native FTP servers. **Note:** Processing is required and an email notification will be sent when your request is ready for downloading.

FTP Request

Depending on the size and quantity of ordered product files, the Download Method screen could also have these options:

Note: For mainframe downloads using this HTTP method, click the Learn More link.

Download Method

Please choose a download method to complete your download request. Learn More

HTTP via Download Manager

This is the CA recommended method for download. The Download Manager allows you to download your files faster and more efficiently.

Download

Create a Zip File

This method allows you to bundle your download files into one or more zip files of up to 3.5 GB each. These zip files can then be downloaded via HTTP or FTP.

Note: Processing is required and an email notification will be sent when your request is ready for downloading.

Create Zip

The HTTP method lets you start downloading immediately. The FTP method takes you to the Review Orders page that displays your order, first in a Pending status changing to Ready when your order has been processed.

Preferred FTP uses the new content delivery network (CDN). Alternate FTP uses the CA Technologies New York-based FTP servers.

The Create a Zip File option first creates the zip, and when ready, offers the options that the Zip Download Request examples show in the next illustration.

Review Download Requests

Below is a list of the FTP and large HTTP downloads that have been requested by your site. When status is set to 'Ready' a link will appear.

- For FTP requests, click on the FTP link to view the path information for your download. For more information view our FTP Help document
- For HTTP requests, click on the HTTP link to initiate your download.
- To view the details of your request, click on the desired order number.

Today's Downloads

Order #	Status	Description	Date Placed	Download Options
10000961	Ready	FTP Download Reques	st 04/30/2010	Preferred FTP ▼ Alternate FTP ▼

Previous 6 day Download History

Order #	Status	Description	Date Placed	Download Options
10000949	Ready	ZIP Download Reques	st 04/29/2010	HTTP via DLM Preferred FTP ▼ Alternate FTP ▼
10000948	Ready	ZIP Download Reques	t 04/29/2010	HTTP via DLM Preferred FTP ▼ Alternate FTP ▼

USS Environment Setup

You need a UNIX System Services (USS) directory and a file system with adequate space to perform the following tasks:

- Receive product pax files from CA Support Online.
- Perform utility functions to unpack the pax file into MVS data sets that you can use to complete the product installation.

We recommend that you allocate and mount a file system dedicated to Pax-Enhanced ESD. The amount of space that you need for the file system depends on the following variables:

- The size of the pax files that you intend to download.
- Whether you plan to keep the pax files after unpacking them. We do not recommend this practice.

We recommend that you use one directory for downloading and unpacking pax files. Reusing the same directory minimizes USS setup. You need to complete the USS setup only one time. You reuse the same directory for subsequent downloads. Alternatively, you can create a new directory for each pax download.

Important! Downloading pax files for the SMP/E installation as part of the Pax-Enhanced ESD process requires write authority to the UNIX System Services (USS) directories used for the ESD process. In the file system that contains the ESD directories, you also need free space approximately 3.5 times the pax file size to download the pax file and unpack its contents. For example, to download and unpack a 14 MB pax file, you need approximately 49 MB of free space in the file system hosting your ESD directory.

Allocate and Mount a File System

You can use the zSeries File System (zFS) or hierarchical file system (HFS) for ESD downloads.

This procedure describes how to perform the following tasks:

- Allocate a zFS or an HFS.
- Create a mount point in an existing maintenance USS directory of your choice.
- Mount the file system on the newly created mount point.
 - Note: You must have SUPERUSER authority to do this.
- Optionally, permit write access to anyone in the same group as the person who created the directory.

Important! USS commands are case-sensitive.

Follow these steps:

- 1. Allocate the file system by customizing one of the following samples to your site requirements:
 - On a zFS, use the following sample:

```
//DEFINE EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
              SYS0UT=*
//SYSUDUMP DD
//AMSDUMP DD
               SYS0UT=*
          DD *
//SYSIN
 DEFINE CLUSTER ( +
  NAME(your_zFS_data_set_name) +
  STORAGECLASS(class) +
  LINEAR +
  CYL(primary secondary) +
  SHAREOPTIONS(3,3) +
  )
//FORMAT EXEC PGM=I0EAGFMT, REGION=0M,
// PARM=('-aggregate your_zFS_data_set_name -compat')
//SYSPRINT DD SYSOUT=*
//SYSUDUMP DD SYSOUT=*
//STDOUT DD SYSOUT=*
//STDERR DD SYSOUT=*
//CEEDUMP DD SYSOUT=*
//*
```

On an HFS, use the following sample:

```
//ALCHFS EXEC PGM=IEFBR14
//CAESD DD DSN=yourHFS_data_set_name,
// DISP=(NEW,CATLG,DELETE),UNIT=3390,
// DSNTYPE=HFS,SPACE=(CYL,(primary,secondary,1))
```

The file system is allocated.

Note: Ensure that the zFS or HFS data set name that you use conforms to your data set naming conventions for USS file systems. If the allocation of the file system data set fails, it is because of environmental settings not allowing for the allocation. On an HFS, try using the ISPF 3.2 Data Set Utility to allocate your HFS data set.

2. Create a mount point for the file system. This example shows how to create a /CA/CAESD directory in an existing directory, /u/maint. From the TSO OMVS shell, enter the following commands:

```
cd /u/maint/
mkdir CA
cd CA
mkdir CAESD
```

Note: This document refers to this structure as *yourUSSESDdirectory*.

The mount point is created.

- 3. Mount the file system by customizing one of the following samples to your site requirements:
 - On a zFS, use the following sample:

■ On an HFS, use the following sample:

The file system is mounted.

4. (Optional) Set security permissions for the directory. You can use the chmod command to let other users access the ESD directory and its files. For example, to allow write access to the ESD directory for other users in your USS group, from the TSO OMVS shell, enter the following command:

```
chmod -R 775 /yourUSSESDdirectory/
```

Write access is granted.

Note: For more information about the chmod command, see the IBM *z/OS UNIX System Services User Guide* (SA22-7802).

Copy the Product Pax Files into Your USS Directory

To begin the CA Technologies product installation procedure, copy the product pax file into the USS directory that you set up. Use one of the following methods:

- Download the product pax files directly from the CA Support Online FTP server to your z/OS system.
- Download the product pax file from the CA Support Online FTP server to your computer, and upload it to your z/OS system.
- Download the product file from CA Support Online to your computer. If your download included a zip file, unzip the file, and upload the unzipped pax files to your z/OS system.

This section includes a sample batch job to download a product pax file from the CA Support Online FTP server directly to a USS directory on your z/OS system and sample commands to upload a pax file from your computer to a USS directory on your z/OS system.

Important! The FTP procedures vary due to local firewall and other security settings. Consult your local network administrators to determine the appropriate FTP procedure to use at your site.

Ensure that sufficient free space is available in the USS file system that you are using for Pax-Enhanced ESD to hold the product pax file. If you do not have sufficient free space, error messages similar to the following appear:

EZA1490I Error writing to data set EZA2606W File I/O error 133

When the download finishes, the pax file size in your USS directory matches the value in the Size column for the corresponding pax file on the CA Technologies Products Download window.

More Information:

<u>How the Pax-Enhanced ESD Download Works</u> (see page 33) ESD Product Download Window (see page 33)

Download Using Batch JCL

Use this process to download a pax file from the CA Support Product Downloads window by running batch JCL on the mainframe. Use the sample JCL attached to the PDF file as CAtoMainframe.txt to perform the download.

Important! To simplify the Pax-Enhanced ESD process, the PDF version of this guide includes a sample JCL job that you can copy directly to the mainframe. To access this job, click the paper clip icon at the left of the PDF reader. A window displaying attachments opens. Double-click the file to view the sample JCL.

Note: We recommend that you follow the preferred method as described on CA Support Online. This procedure is our preferred download method; however, we do include the procedure to download to the mainframe through a PC in the next section.

Follow these steps:

- 1. Supply a valid JOB statement.
- 2. Replace *yourTCPIP.PROFILE.dataset* with the name of the TCP/IP profile data set for your system. Consult your local network administrators, if necessary.
 - The job points to your profile.
- 3. Replace Your Email Address with your email address.
 - The job points to your email address.
- 4. Replace *yourUSSESDdirectory* with the name of the USS directory that you use for ESD downloads.
 - The job points to your USS directory.
- Locate the product component to download on the CA Support Product Download window.
 - You have identified the product component to download.
- 6. Click Download for the applicable file.
 - **Note:** For multiple downloads, add files to a cart.
 - The Download Method window opens.
- 7. Click FTP Request.

The Review Download Requests window displays any files that you have requested to download.

Note: We send you an email when the file is ready to download or a link appears in this window when the file is available.

8. Select one of the following methods:

Preferred FTP

Uses CA Technologies worldwide content delivery network (CDN). If you cannot download using this method, review the security restrictions for servers that company employees can download from that are outside your corporate network.

Host Name: ftp://ftpdownloads.ca.com

Alternate FTP

Uses the original download servers that are based on Long Island, New York.

Host Name: ftp://scftpd.ca.com for product files and download cart files and ftp://ftp.ca.com for individual solution files.

Both methods display the host, user name, password, and FTP location, which you then can copy into the sample JCL.

Note: The following links provide details regarding FTP: the FTP Help document link in the Review Download Requests window and the Learn More link available in the Download Methods window.

9. Submit the job.

Important! If your FTP commands are incorrect, it is possible for this job to fail and still return a zero condition code. Read the messages in the job DDNAME SYSPRINT to verify the FTP succeeded.

After you run the JCL job, the pax file resides in the mainframe USS directory that you supplied.

Example: CAtoMainframe.txt, JCL

The following text appears in the attached CAtoMainframe.txt JCL file:

```
//GETPAX
        JOB (ACCOUNTNO), 'FTP GET ESD PACKAGE',
//
          MSGCLASS=X,CLASS=A,NOTIFY=&SYSUID
//* This sample job can be used to download a pax file directly from *
//* CA Support Online to a USS directory on your z/OS system.
//*
//* When editing the JCL ensure that you do not have sequence numbers *
//* turned on.
//*
//* This job must be customized as follows:
//* 1. Supply a valid JOB statement.
//* 2. The SYSTCPD and SYSFTPD JCL DD's statements in this JCL maybe
//*
      optional at your site. Remove the statements that are not
//*
      required. For the required statements, update the data set
//*
      names with the correct site specific data set names.
//* 3. Replace "Host" based on the type of download method.
//* 4. Replace "YourEmailAddress" with your email address.
//* 5. Replace "yourUSSESDdirectory" with the name of the USS
//*
      directory used on your system for ESD downloads.
//* 6. Replace "FTP Location" with the complete path
//*
      and name of the pax file obtained from the FTP location
      of the product download page.
//GETPAX EXEC PGM=FTP, PARM='(EXIT', REGION=0M
//SYSTCPD DD DSN=yourTCPIP.PROFILE.dataset,DISP=SHR
//SYSFTPD DD DSN=yourFTP.DATA.dataset,DISP=SHR
//SYSPRINT DD SYSOUT=*
         DD SYSOUT=*
//OUTPUT
//INPUT
         DD
Host
anonymous YourEmailAddress
lcd yourUSSESDdirectory
binary
get FTP location
quit
```

Download Files to Mainframe through a PC

If you download pax or zip files from CA Support Online to your PC, use this procedure to upload the pax file from your PC to your z/OS USS directory.

Follow these steps:

1. Follow the procedures in How the Pax-Enhanced ESD Download Works to download the product pax or zip file to your PC. If you download a zip file, first unzip the file to use the product pax files.

The pax or zip file resides on your PC.

2. Open a Windows command prompt.

The command prompt appears.

- 3. Customize and enter the FTP commands with the following changes:
 - a. Replace mainframe with the z/OS system's IP address or DNS name.
 - b. Replace userid with your z/OS user ID.
 - c. Replace password with your z/OS password.
 - d. Replace C:\PC\folder\for\thePAXfile with the location of the pax file on your PC.
 - e. Replace *yourUSSESDdirectory* with the name of the USS directory that you use for ESD downloads.
 - f. Replace paxfile.pax.Z with the name of the pax file to upload.

The pax file is transferred to the mainframe.

Example: FTP Commands

This list is a sample of FTP commands to upload the pax file from your PC to your USS Pax-Enhanced ESD directory:

ftp mainframe
userid
password
bin
lcd C:\PC\folder\for\thePAXfile
cd /yourUSSESDdirectory/
put paxfile.pax.Z
quit
exit

Create a Product Directory from the Pax File

Use the sample job attached to the PDF file as Unpackage.txt to extract the product pax file into a product installation directory.

Important! To simplify the Pax-Enhanced ESD process, the PDF version of this guide includes a sample JCL job that you can copy directly to the mainframe. To access this job, click the paper clip icon at the left of the PDF reader. A window displaying attachments opens. Double-click the file to view the sample JCL.

Follow these steps:

- 1. Supply a valid JOB statement.
- 2. Replace *yourUSSESDdirectory* with the name of the USS directory that you use for ESD downloads.
 - The job points to your specific directory.
- 3. Replace *paxfile.pax.Z* with the name of the pax file.
 - The job points to your specific pax file.
- 4. Submit the job.

The job runs and creates the product directory.

Note: If the PARM= statement exceeds 71 characters, uncomment and use the second form of UNPAXDIR instead. This sample job uses an X in column 72 to continue the PARM= parameters to a second line.

Sample Job to Execute the Pax Command (Unpackage.txt)

The following text appears in the attached Unpackage.txt JCL file:

```
//ESDUNPAX JOB (ACCOUNTNO), 'UNPAX ESD PACKAGE ',
// MSGCLASS=X,CLASS=A,NOTIFY=&SYSUID
//* This sample job can be used to invoke the pax command to create
//* the product-specific installation directory.
//*
//* This job must be customized as follows:
//* 1. Supply a valid JOB statement.
//* 2. Replace "yourUSSESDdirectory" with the name of the USS
      directory used on your system for ESD downloads.
//*
//* 3. Replace "paxfile.pax.Z" with the name of the pax file.
//* NOTE: If you continue the PARM= statement on a second line, make \,^*
        sure the 'X' continuation character is in column 72.
//UNPAXDIR EXEC PGM=BPXBATCH,
// PARM='sh cd /yourUSSESDdirectory/; pax -rvf paxfile.pax.Z'
//*UNPAXDIR EXEC PGM=BPXBATCH,
//* PARM='sh cd /yourUSSESDdirectory/; pax
                                                              Χ
//*
             -rvf paxfile.pax.Z'
//STDOUT DD SYSOUT=*
//STDERR DD SYSOUT=*
```

Copy Installation Files to z/OS Data Sets

Use this procedure to invoke the SMP/E GIMUNZIP utility to create MVS data sets from the files in the product-specific directory.

Follow these steps:

Locate and read the product readme file or installation notes, if applicable, which
resides in the product-specific directory that the pax command created. This file
contains the product-specific details you require to complete the installation
procedure.

You have identified the product-specific installation details.

- 2. Use ISPF EDIT or TSO ISHELL to edit the UNZIPJCL sample job. You can perform this step in one of the following ways:
 - Use ISPF EDIT. Specify the full path name of the UNZIPJCL file.
 - Use TSO ISHELL. Navigate to the UNZIPJCL file and use the E line command to edit the file.

The job is edited.

3. Change the SMPDIR DD PATH to the product-specific directory created by the pax command.

Your view is of the product-specific directory.

- 4. If ICSF is not active, perform the following steps:
 - a. Change the SMPJHOME DD PATH to your Java runtime directory. This directory varies from system to system.
 - b. Perform one of the following steps:
 - Change the SMPCPATH DD PATH to your SMP/E Java application classes directory, typically /usr/lpp/smp/classes/.
 - Change HASH=YES to HASH=NO on the GIMUNZIP parameter.

One of the following occurs: ICSF is active or you are using Java.

5. Change all occurrences of yourHLQ to the high-level qualifier (HLQ) for z/OS data sets used by the installation process. We suggest that you use a unique HLQ for each expanded pax file to identify uniquely the package. Do not use the same value for yourHLQ as you use for the SMP/E RELFILEs.

All occurrences of yourHLQ are set to your high-level qualifier for z/OS data sets.

6. Submit the UNZIPJCL job.

The UNZIPJCL job completes with a zero return code. Messages GIM69158I and GIM48101I in the output and IKJ56228I in the JES log are acceptable.

GIMUNZIP creates z/OS data sets with the high-level qualifier you specified in the UNZIPJCL job. You use these data sets to perform the product installation. The pax file and product-specific directory are no longer needed.

Note: For more information, see the IBM reference guide, *SMP/E for z/OS Reference (SA22-7772)*.

Unload the Install Utility

The installation utility software lets you generate and run the JCL required to install your product. The installation utility software is delivered electronically with ESD.

The installation software unloads into the *dsnpref*.CAI.NMC1.CC2DJCL data set; *dsnpref* is a prefix you specify for your product data sets.

After you unzip the data sets, do one of the following:

- Rename dsnpref.CAI.NMC1.CC2DJCL to dsnpref.NMC1.CC2DJCL
- Copy the members in *dsnpref*.CAI.NMC1.CC2DJCL into *dsnpref*.NMC1.CC2DJCL

Installation JCL

The installation process creates the *dsnpref*.NMC1.INSTDB database to store details of each installation that you perform. If you are also installing other products in the CA Mainframe Network Management family of products, this database manages those installations. These details include the products you install and the installation values that you specify.

Note: During this task, the INSTALLATION JCL Library Creation panel lets you specify your installation JCL library. The default library name is *dsnpref*.NMC1.INSTALL.JCL, where *dsnpref* is the same data set prefix you used for the *dsnpref*.NMC1.CC2DJCL data set

If your installation JCL library exists, do one of the following:

- Specify a new data set name at that panel.
- Delete the existing library by issuing a TSO DELETE command.

Note: If you leave the Install Utility at any stage, you can return to it from the ISPF/PDF TSO Command Shell prompt. Execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

Generate the Installation JCL

During the installation process, you provide the <u>site-specific installation information that</u> <u>you previously collected</u> (see page 97). This information is used to generate the installation JCL.

Follow these steps:

1. At the ISPF/PDF TSO Command Shell prompt, execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

The Install Utility panel appears.

Note: On each of the Install Utility panels, you can use the following keys:

- Enter to proceed to the next panel
- F1 to display online help
- F3 to return to the previous panel
- F4 to exit and return to the main menu
- 2. Press Enter.

The Install Utility Primary Menu panel appears.

3. Enter 1 (Set Installation Parameters).

The Software Delivery Method panel appears.

4. Complete each of the panels as they open. Press Enter at the completion of each panel.

You must complete all five parameter panels before you can install the product. You can take the default options or specify site-specific values.

Note: For information about the fields, press F1 (Help).

5. Enter 2 (Install Products).

The INSTALLATION Primary Menu panel appears.

6. Enter 1 (Select Products to Install).

The INSTALLATION Product Selection panel appears with previously installed products unavailable.

7. Enter **S** next to the product name and press Enter.

The INSTALLATION Product Confirmation panel appears, confirming your selections.

If you have already installed another product in the product family, the INSTALLATION Components Already Installed panel appears, confirming your selections.

Note: You can enter S next to multiple products to install multiple products at one time. You must be licensed for any products you install.

8. Press Enter to confirm your selection, and complete each of the INSTALLATION panels as they open.

You must complete all the panels before you can set up your regions. You can take the default options or specify site-specific values.

9. Record the data set name into which the JCL was generated in your <u>post-installation</u> worksheet (see page 105).

You can submit the jobs from the panel or directly from this data set after exiting the panel.

10. Submit and run the following installation jobs in sequence. Do not proceed with any job until the previous job has completed successfully.

I01ALLOC

Allocates the data sets.

The IO1ALLOC member allocates CC2DLOAD as a load library of the PDS type. Do not change it to a PDS/E type because the type is not supported.

I02INSMP

Initializes the SMP/E data sets.

IO3RCSMP

Performs an SMP/E RECEIVE.

I04AKSMP

Performs an SMP/E APPLY CHECK. This job is listed only if maintenance exists for previously installed products.

I05RSSMP

Performs an SMP/E RESTORE. This job is listed only if maintenance exists for previously installed products.

I06APSMP

Performs an SMP/E APPLY.

I07ACSMP

Performs an SMP/E ACCEPT.

11. Press F3.

You are returned to the Primary Menu panel.

Clean Up the USS Directory

Important! This procedure is optional. Do not use this procedure until you complete the entire installation process.

To free file system disk space for subsequent downloads after downloading and processing the pax files for your CA Technologies product, we recommend removing the files from your USS directory and deleting unnecessary MVS data sets. You can delete the following items:

- Pax file
- Product-specific directory created by the pax command and all of the files in it
- SMP/E RELFILES, SMPMCS, and HOLDDATA MVS data sets

These data sets have the HLQ that you assigned in the UNZIPJCL job.

Note: Retain non-SMP/E installation data sets such as *yourHLQ*.INSTALL.NOTES for future reference.

Follow these steps:

1. Navigate to your Pax-Enhanced ESD USS directory.

Your view is of the applicable USS directory.

2. Delete the pax file by entering the following command:

rm paxfile

paxfile

Specifies the name of the CA Technologies pax file that you downloaded.

The pax file is deleted.

3. Delete the product-specific directory by entering the following command:

rm -r product-specific-directory

product-specific-directory

Specifies the product-specific directory created by the pax command.

The product-specific directory is deleted.

Note: You can also use TSO ISHELL to navigate to the pax file and product-specific directory, and delete them using the D line command.

Maintenance

Maintenance includes program temporary fixes (PTFs) that supersede all authorized program analysis reports (APARs) that were created up to that time. Details of the superseded APARs are available as comments within the PTFs.

Product Maintenance

Important! The *dsnpref*.NMC1.CC2DLINK data set must be in your system LNKLST before you start maintenance. You can also create a STEPLIB to the data set name (DSN) in your TSOPROC (that is, allocate it to ISPLLIB). If you installed the product using CA MSM, you must use CA MSM to apply maintenance.

Product maintenance is provided as system modification program (SMP) fixes. The fixes consist of PTFs applied using the IBM System Modification Program Extended (SMP/E) tool.

Note: If an installed SMP fix contains maintenance for the VSAM data sets, you must update those data sets for each region you have set up.

Apply Maintenance

This section describes how to apply individual SMP fixes using the Install Utility.

Note: Individual SMP fixes are only available from the <u>CA Technical Support site</u> (see page 4).

When you receive SMP fixes, unload them into one of the following:

- A sequential data set
- A member of a partitioned data set

Multiple SMP fixes can be appended into a single data set or member.

Follow these steps:

- 1. Access the ISPF/PDF Primary Menu.
- 2. Select the COMMAND option.

The ISPF Command Shell panel appears.

3. At the command prompt, enter the following command:

```
EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'
```

4. At the Install Utility title panel, press Enter.

The Install Utility Primary Menu panel appears.

5. At the Install Utility Primary Menu panel, enter **8** (Maintain Products).

The MAINTENANCE Primary Menu panel appears.

6. Enter **3** (Apply individual SMP fixes from a DASD data set).

The MAINTENANCE DASD Fixes Dataset Name panel appears.

- 7. Enter the data set name that contains the SMP fixes to be applied and press Enter.
- 8. Complete the fields on the following MAINTENANCE panels as they open.

9. At the MAINTENANCE JCL Library Creation panel, review your fix JCL library.

The default library name is:

dsnpref.NMC1.FIX.DASD.JCL

dsnpref

The same data set prefix you used for the dsnpref.NMC1.CC2DJCL data set.

Note: Each time you apply maintenance, use a new output data set. A new data set ensures that the only jobs in your maintenance JCL library are the jobs required for the maintenance you are installing now. To use a new data set:

- Delete the library by issuing a TSO DELETE command and the library name, at the command prompt.
- Specify a new data set name.
- 10. Press Enter to proceed with the generation of the maintenance JCL.

When the JCL generation is complete, a list of generated jobs and a description of what each member does appears.

- 11. Note the name of the data set into which the JCL was generated.
- 12. Submit and run the following jobs in sequence. Do not proceed with any job until the previous job has completed successfully.

Each job must complete with return code 0 unless otherwise indicated.

Important! If there is maintenance for additional features, the SMP/E apply job must be run on a system that has the z/OS UNIX file system used during installation and mounted for read/write access.

F11RCSMP

SMP/E receives maintenance and lists existing HOLDDATA and SOURCEIDs that are already applied. If a job step returns condition code 04, there is no HOLDDATA present.

Review the information. For any held APARs that you want to apply, add the correct BYPASS HOLD*x* operands to the corresponding APPLY control statement for those APARs. Add the operands by manually editing the F12APSMP job that contains the SMP control statements.

Note: For information about the BYPASS HOLD*x* operands, see IBM's *SMP/E Commands* guide.

F12APSMP

SMP/E applies maintenance.

13. Press F3.

The Install Utility Primary Menu panel appears.

If the fix contains maintenance for VSAM data sets (as indicated by HOLDDATA), continue with the procedure to update the VSAM data sets for the regions you have set up. Otherwise, you have finished applying the fix.

HOLDDATA

When you apply maintenance, you typically encounter SMP/E HOLDDATA. We use HOLDDATA to notify your SMP/E system of SYSMODs that have errors or special conditions. We support system and external HOLDDATA.

System HOLDDATA

System HOLDDATA indicates data that is an in-stream part of the SYSMOD, informing you of special conditions. The following reasons are used with SYSTEM HOLDDATA for CA SOLVE:FTS:

ACTION

Indicates that you must perform special processing before or after you apply this SYSMOD.

AO

Affects automated operations. It changes either the message identifier or the displacement of a field inside the message.

DB2BIND

Indicates that DBRMs have changed and packages need to be rebound.

DDDEF

Indicates that data sets and DDDEFs are being added or modified.

DELETE

Deletes the SYSMOD load module. You cannot reverse this type of SYSMOD with the SMP/E RESTORE command.

DEP

Indicates a dependency for this SYSMOD that you must externally verify.

DOC

Indicates a documentation change with this SYSMOD.

DYNACT

Describes the steps to dynamically activate this fix without performing an IPL.

ENH

Introduces a small programming enhancement. The hold contains the instructions to implement the enhancement. If no action is needed to implement the enhancement, give a summary of the enhancement.

EXIT

Indicates that changes delivered by this SYSMOD require reassembly of user exits.

EXRF

Indicates that the SYSMOD must be installed in both the Active and Alternate Extended Recovery Facility Systems.

MULTSYS

Apply this SYSMOD to multiple systems for either pre-conditioning, coexistence, or exploitation.

RESTART

Indicates that after applying this SYSMOD, the site must perform a special restart as opposed to a routine restart.

SYSMOD

Indicates that some or all of the elements delivered by this SYSMOD are to be downloaded to a workstation.

Code a bypass operand on your APPLY command to install SYSMODs that have internal holds. Code the bypass operand only after you have performed the required action, or if you are performing the action after the APPLY, if that is appropriate.

External HOLDDATA

External HOLDDATA is not part of the PTF. It resides in a separate file. It is commonly used for SYSMODs that have been distributed and later are discovered to cause problems.

Download the external HOLDDATA from CA Support to a DASD file, and allocate the file to the SMPHOLD DD statement. To take care of the external HOLDDATA, receive it into your SMP/E environment. SMP/E receives the HOLDDATA from CA-supplied jobs.

If a SYSMOD has an unresolved hold error, SMP/E does not install it unless you add a bypass to your APPLY command. You can bypass an error hold in situations that are not applicable to you. Error holds that are not applicable to you can include a problem that happens only with a hardware device that you do not have or in a product feature that you do not use.

When CA publishes a SYSMOD that resolves the hold, the resolving SYSMOD supersedes the hold error. This action lets you apply the original SYSMOD in conjunction with the fixing SYSMOD.

A special HOLDDATA class called ERREL exists. We have determined that the problem fixed by the SYSMOD is more important than the one that it causes. We recommend that you apply these SYSMODs.

The only manual task is running a REPORT ERRSYSMODS. This report identifies the following:

- Any held SYSMODs already applied to your system.
- Any resolving SYSMODs that are in RECEIVE status.

SMP/E identifies the SYSMOD to apply to correct the situation.

Update VSAM Data Sets

If an installed SMP fix contains maintenance for the VSAM data sets, maintenance option V of the Install Utility becomes available. To complete maintenance, select the option to update the data sets for the regions you have set up.

Follow these steps:

1. Access the ISPF/PDF Primary Menu, and select the COMMAND option.

The ISPF Command Shell panel appears.

2. At the command prompt, execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

The Install Utility title panel appears.

3. Press Enter.

The Install Utility Primary Menu panel appears.

4. Enter 8 (Maintain Products).

The MAINTENANCE Primary Menu panel appears.

5. Enter **V** (Update MODS, PANELS, OSCNTL and NETINFO data sets with installed maintenance).

The MAINTENANCE Shared Region Data Sets panel appears.

- 6. Review the information, and press Enter.
- At the MAINTENANCE JOBCARD Information panel, specify your JOBCARD details and press Enter.

8. At the MAINTENANCE JCL Library Creation panel, review your fix JCL library. The default library name is:

dsnpref.NMC1.FIX.VSAMUPD.JCL

dsnpref

The same data set prefix used for the dsnpref.NMC1.CC2DJCL data set.

Note: Each time you apply maintenance, use a new output data set. The new data set helps ensure that the only jobs in your maintenance JCL library are the jobs required for the maintenance you are installing. To use a new data set, take *one* of the following actions:

- Delete the library by issuing a TSO DELETE command and the library name, at the command prompt.
- Specify a new data set name.
- 9. Press Enter to proceed with the generation of the maintenance JCL.
- 10. Submit and run the job F21RFRSH to update the VSAM data sets.

Note: The utility also generates the following jobs: F22DUMP and F23REST. If a shared DASD is not available, the jobs help you deploy those updates to a target system. The F22DUMP job creates backup data set that include the updated VSAM data sets, which you deploy to the target system. This backup data set is *dsnpref*.DFDSS.SHARED. The F23REST job, when submitted on the target system, restores the updated VSAM data sets from the backup data sets.

11. Press F3.

The Install Utility Primary Menu panel appears.

12. Press F4 to exit the Install Utility Primary Menu panel and return to the ISPF Command Shell panel, or continue with the other options.

Chapter 5: Installing Your Product from Tape

This section contains the following topics:

<u>Unload the Install Utility</u> (see page 59) <u>Installation JCL</u> (see page 62) <u>Maintenance</u> (see page 64)

Unload the Install Utility

The installation utility software lets you generate and run the JCL required to install your product. The installation utility software is delivered on tape.

The installation software unloads into the *dsnpref*.NMC1.CC2DJCL data set; *dsnpref* is a prefix you specify for your product data sets.

To unload the install utility, do one of the following:

- If dsnpref.NMC1.CC2DJCL does not exist and you are installing from tape, unload into a new data set from tape (see page 59).
- If dsnpref.NMC1.CC2DJCL exists from a previous installation and you are installing from tape at the current release level, <u>unload into an existing data set from tape</u> (see page 61).

Unload into a New Data Set from Tape

If *dsnpref*.NMC1.CC2DJCL does not exist and you are installing from tape, you must unload the installation software from tape on to your DASD and into a new data set.

Follow these steps:

1. Create an unload job by copying the following JCL:

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD DSN=CAI.SAMPJCL,
           DISP=OLD,UNIT=?device-in,VOL=SER=?tapeser,
//
//
             LABEL=(1, SL, EXPDT=98000)
//SYSUT2 DD DSN=?dsnpref.NMC1.CC2DJCL,
//
             DISP=(NEW, CATLG, DELETE),
//
             UNIT=?device-out, VOL=SER=?volser,
//
             SPACE=(CYL,(10,1,140)),
             DCB=(RECFM=FB, LRECL=80, BLKSIZE=0)
//
         DD DUMMY
//SYSIN
```

Important! The SYSUT2 data set name must end with NMC1.CC2DJCL.

2. Replace the statements prefixed with a question mark (?) with your own values as follows:

?device-in

Specifies the tape drive unit to mount the tape.

?tapeser

Specifies the tape volume serial number in the form C2D76x. The value for this release is C2D760.

?dsnpref

Specifies the data set prefix that will be used for the installation, maintenance, and Install Utility data sets. Do not include the name of your planned product region in the prefix; *?dsnpref* can be up to 29 characters long. If the data set high level qualifiers you are using do not exist, define an alias entry in the master catalog.

?device-out

Specifies the type of the DASD device where you want to place the installation software.

?volser

Specifies the volume serial number of the DASD.

If allocation is controlled by SMS, replace UNIT= and VOL=SER= with STORCLAS=?storclass.

- 3. Submit and run the job.
- 4. Check that the job successfully completed.

Unload into an Existing Data Set from Tape

If *dsnpref*.NMC1.CC2DJCL exists from a previous installation at the current release level, unload the installation software from tape into the existing data set.

Follow these steps:

1. Create an unload job by copying the following JCL:

```
//jobname JOB ......
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//SYSUT1 DD DSN=CAI.SAMPJCL,
// DISP=OLD,UNIT=?device-in,VOL=SER=?tapeser,
// LABEL=(1,SL,EXPDT=98000)
//SYSUT2 DD DSN=?dsnpref.NMC1.CC2DJCL,
// DISP=OLD
//SYSIN DD *
COPY I=((SYSUT1,R)),0=SYSUT2
COPY I=((SYSUT2,R)),0=SYSUT2
/*
```

2. Replace the statements prefixed with a question mark (?) with your own values as follows:

?device-in

Specifies the tape drive unit to mount the tape.

?tapeser

Specifies the tape volume serial number in the form C2D76x. The value for this release is C2D760.

?dsnpref

Specifies the data set prefix in the previous installation.

- 3. Submit and run the job.
- 4. Verify that the job successfully completed.

Installation JCL

The installation process creates the *dsnpref*.NMC1.INSTDB database to store details of each installation that you perform. If you are also installing other products in the CA Mainframe Network Management family of products, this database manages those installations. These details include the products you install and the installation values that you specify.

Note: During this task, the INSTALLATION JCL Library Creation panel lets you specify your installation JCL library. The default library name is *dsnpref*.NMC1.INSTALL.JCL, where *dsnpref* is the same data set prefix you used for the *dsnpref*.NMC1.CC2DJCL data set

If your installation JCL library exists, do one of the following:

- Specify a new data set name at that panel.
- Delete the existing library by issuing a TSO DELETE command.

Note: If you leave the Install Utility at any stage, you can return to it from the ISPF/PDF TSO Command Shell prompt. Execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

Generate the Installation JCL

During the installation process, you provide the <u>site-specific installation information that</u> <u>you previously collected</u> (see page 97). This information is used to generate the installation JCL.

Follow these steps:

1. At the ISPF/PDF TSO Command Shell prompt, execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

The Install Utility panel appears.

Note: On each of the Install Utility panels, you can use the following keys:

- Enter to proceed to the next panel
- F1 to display online help
- F3 to return to the previous panel
- F4 to exit and return to the main menu
- 2. Press Enter.

The Install Utility Primary Menu panel appears.

3. Enter **1** (Set Installation Parameters).

The Software Delivery Method panel appears.

4. Complete each of the panels as they open. Press Enter at the completion of each panel.

You must complete all five parameter panels before you can install the product. You can take the default options or specify site-specific values.

Note: For information about the fields, press F1 (Help).

5. Enter 2 (Install Products).

The INSTALLATION Primary Menu panel appears.

6. Enter 1 (Select Products to Install).

The INSTALLATION Product Selection panel appears with previously installed products unavailable.

7. Enter **S** next to the product name and press Enter.

The INSTALLATION Product Confirmation panel appears, confirming your selections.

If you have already installed another product in the product family, the INSTALLATION Components Already Installed panel appears, confirming your selections.

Note: You can enter S next to multiple products to install multiple products at one time. You must be licensed for any products you install.

8. Press Enter to confirm your selection, and complete each of the INSTALLATION panels as they open.

You must complete all the panels before you can set up your regions. You can take the default options or specify site-specific values.

 Record the data set name into which the JCL was generated in your <u>post-installation</u> <u>worksheet</u> (see page 105).

You can submit the jobs from the panel or directly from this data set after exiting the panel.

10. Submit and run the following installation jobs in sequence. Do not proceed with any job until the previous job has completed successfully.

I01ALLOC

Allocates the data sets.

The IO1ALLOC member allocates CC2DLOAD as a load library of the PDS type. Do not change it to a PDS/E type because the type is not supported.

IO2INSMP

Initializes the SMP/E data sets.

IO3RCSMP

Performs an SMP/E RECEIVE.

I04AKSMP

Performs an SMP/E APPLY CHECK. This job is listed only if maintenance exists for previously installed products.

I05RSSMP

Performs an SMP/E RESTORE. This job is listed only if maintenance exists for previously installed products.

I06APSMP

Performs an SMP/E APPLY.

IO7ACSMP

Performs an SMP/E ACCEPT.

11. Press F3.

You are returned to the Primary Menu panel.

Maintenance

Maintenance includes program temporary fixes (PTFs) that supersede all authorized program analysis reports (APARs) that were created up to that time. Details of the superseded APARs are available as comments within the PTFs.

Product Maintenance

Important! The *dsnpref*.NMC1.CC2DLINK data set must be in your system LNKLST before you start maintenance. You can also create a STEPLIB to the data set name (DSN) in your TSOPROC (that is, allocate it to ISPLLIB). If you installed the product using CA MSM, you must use CA MSM to apply maintenance.

Product maintenance is provided as system modification program (SMP) fixes. The fixes consist of PTFs applied using the IBM System Modification Program Extended (SMP/E) tool.

Note: If an installed SMP fix contains maintenance for the VSAM data sets, you must update those data sets for each region you have set up.

Apply Maintenance

This section describes how to apply individual SMP fixes using the Install Utility.

Note: Individual SMP fixes are only available from the <u>CA Technical Support site</u> (see page 4).

When you receive SMP fixes, unload them into one of the following:

- A sequential data set
- A member of a partitioned data set

Multiple SMP fixes can be appended into a single data set or member.

Follow these steps:

- 1. Access the ISPF/PDF Primary Menu.
- 2. Select the COMMAND option.

The ISPF Command Shell panel appears.

3. At the command prompt, enter the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

4. At the Install Utility title panel, press Enter.

The Install Utility Primary Menu panel appears.

5. At the Install Utility Primary Menu panel, enter 8 (Maintain Products).

The MAINTENANCE Primary Menu panel appears.

6. Enter **3** (Apply individual SMP fixes from a DASD data set).

The MAINTENANCE DASD Fixes Dataset Name panel appears.

- 7. Enter the data set name that contains the SMP fixes to be applied and press Enter.
- 8. Complete the fields on the following MAINTENANCE panels as they open.
- 9. At the MAINTENANCE JCL Library Creation panel, review your fix JCL library.

The default library name is:

dsnpref.NMC1.FIX.DASD.JCL

dsnpref

The same data set prefix you used for the dsnpref.NMC1.CC2DJCL data set.

Note: Each time you apply maintenance, use a new output data set. A new data set ensures that the only jobs in your maintenance JCL library are the jobs required for the maintenance you are installing now. To use a new data set:

- Delete the library by issuing a TSO DELETE command and the library name, at the command prompt.
- Specify a new data set name.
- 10. Press Enter to proceed with the generation of the maintenance JCL.

When the JCL generation is complete, a list of generated jobs and a description of what each member does appears.

- 11. Note the name of the data set into which the JCL was generated.
- 12. Submit and run the following jobs in sequence. Do not proceed with any job until the previous job has completed successfully.

Each job must complete with return code 0 unless otherwise indicated.

Important! If there is maintenance for additional features, the SMP/E apply job must be run on a system that has the z/OS UNIX file system used during installation and mounted for read/write access.

F11RCSMP

SMP/E receives maintenance and lists existing HOLDDATA and SOURCEIDs that are already applied. If a job step returns condition code 04, there is no HOLDDATA present.

Review the information. For any held APARs that you want to apply, add the correct BYPASS HOLD*x* operands to the corresponding APPLY control statement for those APARs. Add the operands by manually editing the F12APSMP job that contains the SMP control statements.

Note: For information about the BYPASS HOLD*x* operands, see IBM's *SMP/E Commands* guide.

F12APSMP

SMP/E applies maintenance.

13. Press F3.

The Install Utility Primary Menu panel appears.

If the fix contains maintenance for VSAM data sets (as indicated by HOLDDATA), continue with the procedure to update the VSAM data sets for the regions you have set up. Otherwise, you have finished applying the fix.

HOLDDATA

When you apply maintenance, you typically encounter SMP/E HOLDDATA. We use HOLDDATA to notify your SMP/E system of SYSMODs that have errors or special conditions. We support system and external HOLDDATA.

System HOLDDATA

System HOLDDATA indicates data that is an in-stream part of the SYSMOD, informing you of special conditions. The following reasons are used with SYSTEM HOLDDATA for CA SOLVE:FTS:

ACTION

Indicates that you must perform special processing before or after you apply this SYSMOD.

AO

Affects automated operations. It changes either the message identifier or the displacement of a field inside the message.

DB2BIND

Indicates that DBRMs have changed and packages need to be rebound.

DDDEF

Indicates that data sets and DDDEFs are being added or modified.

DELETE

Deletes the SYSMOD load module. You cannot reverse this type of SYSMOD with the SMP/E RESTORE command.

DEP

Indicates a dependency for this SYSMOD that you must externally verify.

DOC

Indicates a documentation change with this SYSMOD.

DYNACT

Describes the steps to dynamically activate this fix without performing an IPL.

ENH

Introduces a small programming enhancement. The hold contains the instructions to implement the enhancement. If no action is needed to implement the enhancement, give a summary of the enhancement.

EXIT

Indicates that changes delivered by this SYSMOD require reassembly of user exits.

EXRF

Indicates that the SYSMOD must be installed in both the Active and Alternate Extended Recovery Facility Systems.

MULTSYS

Apply this SYSMOD to multiple systems for either pre-conditioning, coexistence, or exploitation.

RESTART

Indicates that after applying this SYSMOD, the site must perform a special restart as opposed to a routine restart.

SYSMOD

Indicates that some or all of the elements delivered by this SYSMOD are to be downloaded to a workstation.

Code a bypass operand on your APPLY command to install SYSMODs that have internal holds. Code the bypass operand only after you have performed the required action, or if you are performing the action after the APPLY, if that is appropriate.

External HOLDDATA

External HOLDDATA is not part of the PTF. It resides in a separate file. It is commonly used for SYSMODs that have been distributed and later are discovered to cause problems.

Download the external HOLDDATA from CA Support to a DASD file, and allocate the file to the SMPHOLD DD statement. To take care of the external HOLDDATA, receive it into your SMP/E environment. SMP/E receives the HOLDDATA from CA-supplied jobs.

If a SYSMOD has an unresolved hold error, SMP/E does not install it unless you add a bypass to your APPLY command. You can bypass an error hold in situations that are not applicable to you. Error holds that are not applicable to you can include a problem that happens only with a hardware device that you do not have or in a product feature that you do not use.

When CA publishes a SYSMOD that resolves the hold, the resolving SYSMOD supersedes the hold error. This action lets you apply the original SYSMOD in conjunction with the fixing SYSMOD.

A special HOLDDATA class called ERREL exists. We have determined that the problem fixed by the SYSMOD is more important than the one that it causes. We recommend that you apply these SYSMODs.

The only manual task is running a REPORT ERRSYSMODS. This report identifies the following:

- Any held SYSMODs already applied to your system.
- Any resolving SYSMODs that are in RECEIVE status.

SMP/E identifies the SYSMOD to apply to correct the situation.

Update VSAM Data Sets

If an installed SMP fix contains maintenance for the VSAM data sets, maintenance option V of the Install Utility becomes available. To complete maintenance, select the option to update the data sets for the regions you have set up.

Follow these steps:

1. Access the ISPF/PDF Primary Menu, and select the COMMAND option.

The ISPF Command Shell panel appears.

2. At the command prompt, execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

The Install Utility title panel appears.

3. Press Enter.

The Install Utility Primary Menu panel appears.

4. Enter 8 (Maintain Products).

The MAINTENANCE Primary Menu panel appears.

5. Enter **V** (Update MODS, PANELS, OSCNTL and NETINFO data sets with installed maintenance).

The MAINTENANCE Shared Region Data Sets panel appears.

- 6. Review the information, and press Enter.
- At the MAINTENANCE JOBCARD Information panel, specify your JOBCARD details and press Enter.

8. At the MAINTENANCE JCL Library Creation panel, review your fix JCL library. The default library name is:

dsnpref.NMC1.FIX.VSAMUPD.JCL

dsnpref

The same data set prefix used for the *dsnpref*.NMC1.CC2DJCL data set.

Note: Each time you apply maintenance, use a new output data set. The new data set helps ensure that the only jobs in your maintenance JCL library are the jobs required for the maintenance you are installing. To use a new data set, take *one* of the following actions:

- Delete the library by issuing a TSO DELETE command and the library name, at the command prompt.
- Specify a new data set name.
- 9. Press Enter to proceed with the generation of the maintenance JCL.
- 10. Submit and run the job F21RFRSH to update the VSAM data sets.

Note: The utility also generates the following jobs: F22DUMP and F23REST. If a shared DASD is not available, the jobs help you deploy those updates to a target system. The F22DUMP job creates backup data set that include the updated VSAM data sets, which you deploy to the target system. This backup data set is *dsnpref*.DFDSS.SHARED. The F23REST job, when submitted on the target system, restores the updated VSAM data sets from the backup data sets.

11. Press F3.

The Install Utility Primary Menu panel appears.

12. Press F4 to exit the Install Utility Primary Menu panel and return to the ISPF Command Shell panel, or continue with the other options.

Chapter 6: Configuring Your Product

This chapter describes how to use the Install Utility to set up the region required by this product.

Important! You must put the *dsnpref*.NMC1.CAILINK data set in your system linklist before you start setting up regions. You can also create a STEPLIB to the data set name (DSN) in your TSOPROC (that is, allocate it to ISPLLIB).

How Region Setup Works

You can have more than one region on a system. Each region runs as a started task.

The Install Utility uses the <u>site-specific information you collected during preinstallation</u> (see page 97) to generate the jobs that build the regions. If you need additional regions, you can reuse the Install Utility to create them.

Important! After you have run a setup job, you cannot alter the results using the setup software. You can use the setup software to create a region, or you can manually customize the JCL for the existing region.

Specify the Product Region

The Install Utility lets you set up a region with the products you installed. If you need additional product regions, you can reuse the Install Utility to create them.

Follow these steps:

1. At the ISPF/PDF TSO Command Shell prompt, execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

The Install Utility panel appears.

Note: On each of the Install Utility panels, you can use the following keys:

- Enter to proceed to the next panel
- F1 to display online help
- F3 to return to the previous panel
- F4 to exit and return to the main menu
- 2. Press Enter.

The Install Utility Primary Menu panel appears.

- 3. (Optional) If you have installed the product using CA MSM, perform the following steps.
 - a. Enter 1.

The Software Delivery Method panel appears.

- b. Complete the panel:
 - Enter **S** next to CA MSM.
 - Specify the name of the CSI data set used during product installation in the SMP/E CSI Used field.
- c. Press Enter.
- 4. Enter 5 (Setup a NetMaster/SOLVE Product Region).

The SETUP Product Region Primary Menu panel appears.

5. Enter 1 (Add a Region).

The SETUP Specify Product Region Name panel appears.

Note: If you want to add this product to an existing region, enter **4** (Add Products and Additional Features to a Region) and select the appropriate region.

6. Enter the name (*rname*) and description of the region you are setting up. The initial value is NM.

The Install Utility uses the name that you entered to generate local data set names and the started task JCL. For example, if you enter REGION01 as the region name, your started task JCL is REGION01 and a local region file, such as the Virtual File System (VFS), is *dsnpref*.REGION01.VFS.

The SETUP Product Selection panel appears.

7. Enter **S** next to the products you are licensed to include in the region.

8. Complete each of the SETUP panels as they open. You can accept the default values or specify site-specific values.

Note: For information about the fields, press F1 (Help).

The setup software generates a series of setup jobs in the *dsnpref*.NMC1.*rname*.JCL library.

9. Record the name of the data set into which the JCL was generated in your post-installation worksheet (see page 105).

10. Submit and run the following jobs in sequence. Do not proceed with any job until the previous job has completed successfully.

S01LCALC

Allocates the region-specific (local) data sets. If you are upgrading and have increased the size of a particular file, modify the JCL to increase the space allocation as required.

S02SHALC

Allocates the shared run-time data sets.

SO3LDVIP

Populates the MODS, PANELS, and OSCNTL files.

S04LDVSM

Populates the other VSAM files.

S05LDPDS

Copies some PDS members to *dsnpref.rname*.TESTEXEC or *dsnpref*.PARMLIB for use by the product region. If this product is being added to an existing region, the RUNSYSIN and IIAPARMS are overwritten.

When the region starts for the first time, the values in IIAPARMS set up certain parameter group values. On subsequent startups, the region uses the parameter group values. The IIAPARMS values are then only used if INIRESET=YES is specified or if the VFS data set is reset.

Note: The member names for IIAPARMS and SXPARMS include the domain ID, so they appear as IIA*dmid* and SXP*dmid*.

S06MIGRT

Copies site-specific VSAM data from an earlier release.

Note: The utility also generates the following jobs for deploying the configuration files for your region to a target system when a shared DASD is not available: S10DUMP and S11REST. The S10DUMP job creates a backup data set that includes the configuration files for the region, which you deploy to the target system. The S11REST job, when submitted on the target system, restores the configuration files from the backup data set. In addition to deploying the configuration files, also deploy the target libraries. CA MSM can facilitate this deployment.

11. Press F3.

The Install Utility Primary Menu panel appears.

Note: If you want to replicate this product region on another system, certain data sets are required. Copy the data sets listed in *dsnpref*.NMC1.*rname*.JCL(DSLIST) to your target system.

Chapter 7: Creating VTAM Definitions and Tables

The topics in this section describe the manual tasks you perform if you are not configuring your product using CA MSM.

You create VTAM definitions and tables to set up your VTAM major node.

This section contains the following topics:

Create VTAM Definitions and Tables (see page 75)

Create VTAM Definitions and Tables

The Create VTAM Definitions and Tables facility builds the VTAM major node, which contains application definition statements for all ACBs required by your product regions. Perform this task initially when all product regions have been set up. If changes are made to any regions or if additional regions are added later, perform the task again.

Note: You use the major node that you create in this procedure to <u>activate your VTAM applications</u> (see page 79).

Follow these steps:

1. At the ISPF/PDF TSO Command Shell prompt, execute the following command:

EXEC 'dsnpref.NMC1.CC2DJCL(INSTALL)'

The Install Utility Primary Menu panel appears.

2. Enter 7 (Create VTAM Definitions and Tables).

The VTAM Primary Menu panel appears.

3. Enter 1 (Create VTAM Definitions and Tables).

The VTAM Data Sets panel appears.

4. Enter the VTAM major node name (*vtamname*) and data set names of the requested IBM data sets.

The VTAM NetMaster/SOLVE ACBs panel appears and displays the prefix for External Interface Package (EIP) ACBs and the names of all product regions and the ACBs associated with them.

Note: If >>> appears, you can use F10 (right) to display all ACBs.

- 5. Enter the prefix for EIP ACBs.
- 6. Complete each of the remaining panels as they appear. Accept the default values, or specify site-specific values.
- 7. **Note:** For information about the fields, press F1 (Help).

The Install Utility generates a series of jobs in the *dsnpref*.NMC1.VTAM.JCL library.

- 8. Record the name of the data set into which the JCL was generated in your <u>post-installation worksheet</u> (see page 105).
- 9. Submit and run the V01LDVTM job.

The major node is copied into SYS1.VTAMLST.

Note: This job should return condition code 0.

10. Press F3.

The Install Utility Primary Menu panel appears.

11. Enter X.

The Install Utility closes.

Note: Press F1 (Help) for information about any panel.

Chapter 8: Preparing to Start Your Product

Before CA SOLVE:FTS can be started and used, preparation tasks are required.

This section contains the following topics:

Started Task JCL Setup (see page 77)
Load Libraries (see page 79)
Activate VTAM Applications (see page 79)
Enable Auditing by CA Auditor (see page 80)

Started Task JCL Setup

The Install Utility places RUNSYSIN (for the product region) in a default data set. If you move this member to a more secure data set, you must update the started task JCL to point to the new data set.

Started Task Parameter Members

The Install Utility generates the following members, based on the values you entered during the installation and setup process. Review these members to ensure that they meet your site-specific requirements; if necessary, reapply any previous customization that is still required:

Product region started task member dsnpref.rname.TESTEXEC(RUNSYSIN)

To assist you in planning future deployment, you can update the RUNSYSIN started task members to use z/OS static system symbols if you have set SUBS=YES in the member.

Note: For more information about JCL parameters, see the *Reference Guide*.

If you do not want SYS1.DUMP data sets for dumps, remove the parameter PPREF='XOPT=SDUMP' and add the SYSMDUMP DD statement to the generated task in *dsnpref*.NMC1.*rname*.JCL(*rname*).

If you want to use a <u>migrated INI file</u> (see page 17), uncomment the PPREF='INIFILE=???????' parameter and replace the question marks with the name of the INI file.

- Product region parameter members in dsnpref.rname.TESTEXEC:
 - NMREADY
 - NMINIT

Note: If you do not have other CA NetMaster products in this region, you must activate INMC links in NMREADY.

You can activate these links now or later.

Note: For more information about the INMC feature and INMC LINK definition parameters, see the *Reference Guide*.

Review and Copy the Product Region Started Task

The Install Utility generates a product region started task that you must review to ensure that it meets your site-specific requirements; if necessary, reapply any previous customization that is still required.

Use this procedure to review, update, and copy the started task to a procedure library.

Note: To assist you in the planning of future deployment, you can update the product region started task to use z/OS static system symbols.

Follow these steps:

- 1. Review and update the DD statements in the product region started task member *dsnpref*.NMC1.*rname*.JCL(*rname*) for your site-specific requirements.
- 2. Copy the reviewed member to SYSx.PROCLIB.

Load Libraries

Most products have their own load library but also require the load libraries of supporting services. The following load libraries must be APF-authorized:

CC2DLOAD

Authorization of the Load Libraries

To APF-authorize your load libraries, add the run-time load libraries to the SYS1.PARMLIB(IEAAPFxx) APF list.

To dynamically APF-authorize the load libraries, issue the following z/OS command:

SETPROG APF, ADD, DSNAME=?loadlib, VOLUME=?volser

?loadlib

Specifies the name of the load library.

?volser

Specifies its volume serial number.

To dynamically APF-authorize load libraries controlled by SMS, issue the following z/OS command:

SETPROG APF, ADD, DSNAME=?loadlib, SMS

Activate VTAM Applications

You must activate VTAM applications for your regions. The Create VTAM Definitions and Tables facility builds a VTAM major node that contains APPL definitions for all product regions. The member V01LDVTM copies *vtamname* to SYS1.VTAMLST, which is the VTAM library that contains all the major node and application definitions used by your product.

Follow these steps:

- 1. Add *vtamname* to the startup list in SYS1.VTAMLST(ATCCONxx).
- 2. Activate the VTAM major node by entering the following VTAM command:

V NET, ACT, ID=vtamname

3. Check that all of the applications are defined to VTAM after the activation. To do this, display the major node by entering the following VTAM command:

D NET, ID=vtamname, E

Enable Auditing by CA Auditor

If your auditors require CA Auditor or CA Common Inventory Service to know of this product running on your system, put a load module in your system LNKLST.

To define the load module to the system LNKLST, include the library dsnpref.NMC1.CC2DLINK in the system LNKLST SYS1.PARMLIB(PROGxx), for example:

LNKLST ADD NAME(LNKLST00) DSNAME(dsnpref.NMC1.CC2DLINK)

Note: Common load modules are used for all CA Mainframe Network Management products. You only need to include one copy of this *dsnpref*.NMC1.CC2DLINK library in the system LNKLST.

Chapter 9: Starting Up

This section contains the following topics:

Start the Product Region (see page 81)

Perform the Initial Logon (see page 82)

Add the Initial Administrator User ID (see page 82)

Perform Subsequent Logon (see page 83)

Note: If you want to run other products in the CA Mainframe Network Management family in this region, before proceeding, complete the tasks described in the *Installation Guide* for the other products.

Start the Product Region

To start the product region, issue the following command:

S rname

rname is the name you specified for the region during the setup process.

Note: To stop the started task, issue the following command from the MVS console: P *rname*.

Perform the Initial Logon

Note: If your region is using an existing UAMS data set, you will already have an administrator user ID available for the region. You can use that ID to log on to the region.

Follow these steps:

1. Log on to the product region. You can use the VTAM logon command:

LOGON APPLID(priacbnm)

priacbnm is the name of the primary VTAM ACB application nominated in the *PPREF='PRI=priacbnm*' command in *dsnpref.rname*.TESTEXEC(RUNSYSIN).

The region logon panel appears.

2. Enter the user ID **INSTALL** and password **99999999**, and press Enter.

The UAMS: Primary Menu appears.

The INSTALL 99999999 is a special user ID and password combination that can be used once only, and is accepted if the USERID data set is empty. The only functions that the INSTALL user ID can perform are those associated with user ID maintenance.

Add the Initial Administrator User ID

The only functions that the INSTALL user ID can perform are those functions associated with user ID maintenance. Therefore, you must add an initial administrator user ID.

Note: If you are using a full security exit, user authorities are not specified through UAMS. Specify these authorities as structured fields in your security exit. For more information, see the *Security Guide*.

To define an initial user with full authority to UAMS

1. At the UAMS: Primary Menu, type the initial administrator user ID in the User field, **USER** in the Definition Type field, and select the **A – Add User Definition** option.

The UAMS: User Details panel appears.

2. Type the initial password and user details for this initial user ID.

Important! The user must change the password again at first logon.

3. Go to the UAMS definition panels and ensure that you give full authority to this initial user to perform future administration tasks. Set the following minimum values:

User Authorities panel, page 2

Authority Level: 255
APPC Access Key: ALL
APPC Access Lock: ALL

Access Authorities panel, page 3

Set all fields to Y.

FTS Details panel, page 9

Control Transmission Privileges - System: Y

Print Services Manager Details panel, page 12

For all fields, set the maximum authority (1 through 4).

Report Writer Details panel, page 13

For all fields, set the maximum authority (1 through 4).

4. Press F3.

The user definition is saved.

Perform Subsequent Logon

You are now ready to log on to your product and begin using it as an authorized user.

Follow these steps:

- 1. Press F3 to log off the product region.
- 2. Log on using your new initial administrator user ID and password.
- 3. If necessary, change your password by typing **U.P**, confirm your change, and press F3 (File) to save the change.

Notes:

- If you set SEC=PARTSAF or SEC=NMSAF in the RUNSYSIN member, you are not required to change your password.
- (Optional) To enable users to logon to the product from TSO, add the:
 - dsprefix.NMC1.CC2DLMD0 data set to LNKLST or STEPLIB concatenation for the appropriate TSO procedure
 - dsprefix.NMC1.CC2DSAMP data set to the SYSHELP concatenation for the appropriate TSO procedure

Chapter 10: Customizing Your Product

Note: After completing customization, you can use product system variables and z/OS static system symbols to help you plan future deployment to multiple regions. You generate an initialization (INI) file where you can use these variables and symbols. For information about setting up the INI file, see the *Administration Guide*.

This section contains the following topics:

<u>Initial Customization Requirements</u> (see page 85)
<u>Additional Parameter Groups</u> (see page 88)
<u>Initialization Failures</u> (see page 90)
<u>Perform Additional Customization</u> (see page 92)

Initial Customization Requirements

You must set various parameters for your site-specific requirements. Use Customizer to review and update the parameter groups in your product region.

Note: Customizer is used to set the majority of your region parameters. If you need to permanently change any SYSPARMS values that are not handled by Customizer, <u>contact Technical Support</u> (see page 4).

Important! Setting certain SYSPARMS to values other than the defaults can render certain product features inoperable.

Customization can only be performed by a user with <u>UAMS maintenance authority</u> (see page 82). That user's UAMS definition should have an APPC Access Key and Lock value of ALL.

Customizer Setup Types

From the Customizer: System Parameters panel, you can select the following options:

Fast Setup

Customizes the required parameter groups and quickly implements your region. It provides default values wherever possible, but lets you review all the required parameter groups to ensure that they match your installation standards. You can customize other parameters at a later time.

Note: You must review all the parameter groups in this option for the region to become operational.

Custom Setup

Customizes the required parameter groups and additional file and data set names, to bring the system operation closer to your installation standards. This option quickly implements your region and still lets you perform some extra customization. It provides some default values, lets you specify names for certain files and data sets, and lets you review the required parameter groups (which are highlighted).

Complete Setup

Customizes all initialization and customization parameters.

Customize Parameter Values

You can use the provided default values or customize the parameter values to suit the requirements of your site.

Note: All parameters have default values.

Follow these steps:

- 1. Enter **U** next to the parameter group that you want to review, and make the necessary changes for your site.
- 2. Press F6 (Action) to apply the change immediately. You can view the results by pressing F5 (ILog).

Note: The F6 option is not available for some parameters.

3. Press F3 (File) to save your changes and indicate that you have reviewed the group.

The value you assign to a parameter is associated with one or more actions, such as setting SYSPARMS or allocating data sets. You can action some parameter groups as soon as you enter appropriate values on the parameter panel. However, when you change the value of some parameters, for example, MODS file names, these parameter values can only be applied by restarting the product region.

Note: If you change a parameter, perform an action, and then cancel that action, the new value will be in effect for that action; but when you restart, the value will return to the last saved value. In addition, you can change a value and save it without applying it to have it take effect on the next startup.

Interrupted Customization

If you exit the customization process before reviewing all required parameter groups, you are presented with a confirmation panel. You can log off and continue with the customization later. Alternatively, another authorized user can log on and complete the customization process. Users cannot access the region until all the required parameter groups have been reviewed.

Update and Review the Fast Setup Customization Parameters

To begin the process of updating and reviewing the Fast Setup Customization parameters, select the Fast Setup Customization Parameters option. The Customizer: Fast Setup panel appears.

Implement System Identification Parameters

Use this procedure to implement system identification parameters.

Follow these steps:

- 1. Enter **U** next to the System Identifications parameter group.
 - The SYSTEMID System Identifications panel appears. The parameter group has two panels.
- 2. Complete the fields on the panels. For information about the fields, press F1 (Help).
- 3. Press F6 (Action) to action the entries.
- 4. Press F3 (File) to save your settings.

The Customizer: Fast Setup panel appears with the Reviewed column marked Yes for the parameter group.

Note: The system ID does not take effect until the next system initialization.

Additional Parameter Groups

Depending on which product features you want to implement, you may want to review other parameter groups and add any values that you saved from your old product region.

You can review these parameter groups now or later, as follows:

- **Now**—Select the Complete Setup Customization Parameters option to list all parameter groups and review the relevant groups. When you complete the review, exit the list and the Customizer: System Parameters panel.
- Later—Exit the Customizer: System Parameters panel. (When you are ready to review these parameter groups, enter /PARMS to list the groups.)

Implement the TCP/IP Sockets Interface Parameters

Use this procedure to enable TCP/IP support to run INMC over TCP/IP.

Access to sockets interfaces requires <u>UNIX System Services authorization</u> (see page 107) provided by an OMVS segment security definition.

To implement the TCP/IP sockets interface parameters

1. Enter **U** next to the TCP/IP Sockets Interface parameter group.

The first SOCKETS - TCP/IP Sockets Interface panel appears.

2. Tab to the TCP/IP Software Type input field, and enter the required value.

Only one type of TCP/IP software can be configured as the sockets interface in each region.

3. Complete the remaining fields on the first panel.

Note: For more information, press F1 (Help).

The Inbound Connections Port field contains a default port number. If another region on this system is already using that number, tab to the field and change it.

Important! The port number must be unique on a system.

4. Press F8.

The second panel for this parameter group appears.

5. Complete the fields on the panel.

Specify the details of the TCP/IP software as follows:

- If you are using the IBM Communications Server, enter your TCPIP.DATA data set name in the TCPIP.DATA DSN field and review the Domain Name Resolution fields.
- If you are using CA TCPaccess CS, tab to the CA TCPaccess CS SSID field and enter the required SSID. If you are unsure of the CA TCPaccess CS subsystem ID, access the CA TCPaccess CS startup procedure and check the value of the SSN parameter.
- 6. Press F6 (Action) to set the specified values and start the interface.
- 7. Press F3 (File) to save your settings.

The Customizer : Complete Setup panel appears with the TCP/IP Sockets Interface Reviewed field marked as YES.

8. Press F3 (Exit).

The Customizer : System Parameters panel appears.

If you enabled TCP/IP support using CA TCPaccess CS, see the following section.

Ensure CA TCPaccess CS DNR Members Translate Subsystem Name

Use this procedure to enable your CA TCPaccess CS Domain Name Resolver (DNR) members translate the CA TCPaccess CS subsystem name into an IP address and a fully qualified host name.

Follow these steps:

1. Enable translation from subsystem name to fully qualified domain name.

For example, if your CA TCPaccess CS subsystem name is ACSS and its fully qualified domain name is MVS.SITE1.COM, enter a line like the following into your DNRALCxx member:

ACSS MVS.SITE1.COM.

Note: Specify the domain name (rather than an IP address), and end it with a period (.).

2. Enable local translation of the fully qualified host name to an IP address.

For example, if the IP address of MVS.SITE1.COM. is 172.16.140.117, enter a line like the following into your DNRHSTxx member:

MVS.SITE1.COM. 172.16.140.117

Note: This DNR configuration is recommended in the *CA TCPaccess CS Customization Guide*, which contains further details about the DNR members of the CA TCPaccess CS PARM data set. Ensure that the HOSTTABLE statement in the DNRCFGxx member points to the correct DNRHSTxx member. You do not need to restart CA TCPaccess CS to introduce changes to the DNR tables. You can restart DNR, for example:

F TCPICS,STOP DNR
F TCPICS,START DNR

Initialization Failures

Fatal errors occur (for example, you are unable to log on) if either or both of the following are unavailable:

- Panel libraries
- MODS control files

Note: If the Panel libraries are missing, the system may display the N59005 message, which says that the \$MHMENU panel is not found. To retry, press F3, or to log off, press F4.

A Customizer parameter group always produces initialization log messages. The messages are echoed to the activity log. If a parameter group fails to initialize and you cannot log on to the region to display error messages, use CA SYSVIEW, SDSF, or an equivalent utility to display the activity log SYSOUT DD. The ddnames are LOG1 through to LOG9.

Resolve Initialization Failures

If you log on to a region where the initialization of a parameter group has failed, Customizer displays the System Initialization In Progress dialog. This dialog indicates progress and assists you with identifying and rectifying any problems by displaying the current initialization status and whether actions associated with parameter groups have failed.

Follow these steps:

- 1. Enter **S** next to List Only Failed Parameters.
- 2. Enter L next to a failed parameter group to view its log and look for error messages.
- 3. Use the message online help and the full activity log to determine the cause of the failure.
- 4. Make the necessary changes to the parameter group and press F6.
 - The parameter group changes are applied.
- 5. Press F3 to save the changes.

Parameter Group Actions

You can apply the following actions to listed parameter groups:

- S or B (Browse) to browse parameter group details.
- **H** (Help) to view the online help for a parameter group.
- **U** (Update) to update parameter group details.
- **AC** (Action) to action a parameter group.
- L (Log) to view the associated initialization and customization log.
- I (Ignore) to tell the system to ignore a failed parameter group and proceed to run dependent parameter groups. This action is not available when initializing for the first time.

Important! Ignoring parameter groups is not recommended. Consider carefully before applying this action.

■ SD (Set Default) to reset the parameter group values to the default values.

Note: Press F1 (Help) for more information.

An action can only be performed against an already completed parameter group or a failed parameter group.

When you correct an error by updating an incorrect parameter group record, you must action that parameter group before processing can continue (unless you apply the Ignore action). To action the parameter group, do *one* of the following:

- Press F6 (Action) when you finish updating the parameter group.
- Apply **AC** (Action) to the listed parameter group.

Perform Additional Customization

You have now completed the initial customization tasks for your product.

The Administration Guide describes other ways that you can customize your product.

Chapter 11: Completing Migration

The process to complete the migration includes tasks that you perform after you start your new product region.

This section contains the following topics:

MODS Migration (see page 93)

Panel Migration (see page 94)

OSCNTL File Migration (see page 96)

Note: If you are migrating from a version earlier than r11, <u>contact Technical Support</u> (see page 4).

MODS Migration

Note: If you have not created your own MODS file, or individual MODS entities, do not perform this step.

MODS File

The format of the MODS file is unchanged. If you have a MODS file containing only user-defined MODS entities that you want to keep, copy the entire file to the file for the new region using the IDCAMS REPRO command.

Note: The MODSFILES parameter group in Customizer controls the allocation of MODS data sets. For more information, enter **/PARMS** on any panel, select \$NM MODSFILES, and press F1 (Help).

Copy MODS Definitions

The following entities are stored in the MODS file:

- Application definitions
- Command definitions
- Criteria definitions
- Help definitions
- List definitions
- Menu definitions
- Message definitions
- Print Services definitions
- Report definitions
- Table definitions

Note: Help alias entities are no longer supported. If you have installation-defined help aliases, convert them to a help page, and code the .cp macro to copy the original member. For more information about help macros, see the *Managed Object Development Services Guide*.

To copy MODS entities from your previous MODS file to your current one

Important! Copy only installation-defined entities. Do not copy distributed entities.

1. Enter /MODSADE from any panel.

The MODS: Entity Administration Menu appears.

2. Type **C** at the prompt, specify the information to copy your entities from the MODSUSR data set used by the old region to the MODSUSR data set used by this region, and press Enter.

The MODS: Entity List panel appears.

3. Select the entities that you want to copy, and press Enter.

Panel Migration

Note: If you have not created your own panel file, or individual panel entities, do not perform this step.

Installation-Defined Panel Library

The format of the panel library is unchanged. If you have a panel library that contains only user-defined panel definitions that you want to keep, copy the entire file to the file for the new region. Use the IDCAMS REPRO command to copy the file.

Note: The allocation of panel data sets is controlled by the PANELLIBS parameter group in Customizer. For more information, enter **/PARMS** on any panel, select \$NM PANELLIBS, and press F1 (Help).

Individual Panels

If you have installation-defined panel definitions in the same panel library as distributed panel definitions, you can copy the individual panel definitions to a panel library for the new region.

Important! Only copy installation-defined panel definitions. Do not copy distributed panel definitions.

Copy Panel Definitions

You must copy the required panel definitions to the panel library in your new product region.

Follow these steps:

- 1. Define a temporary panel library for your old panels using the following steps:
 - a. Enter /MODSAD.P.

The MODS: Panel Library Maintenance Menu appears.

b. Select L - Library Definitions.

The MODS: Library Definition Menu appears.

 Select A - Allocate, Open, and Define Library, and specify a library name (for example, OLDPANLS) and the data set name where your old panels are located. Optionally, specify a description.

A temporary panels library is defined.

d. Press F3 (Exit) to return to the MODS : Panel Library Maintenance Menu.

- 2. Copy the panels using the following steps:
 - a. Select C Copy Panel(s), and specify the From library as the library name you
 just defined (for example OLDPANLS) and the To library as the target panels
 library name.
 - If you leave the Panel Name field empty, the MODS: Panel Copy List appears, showing the panels in the From library.
 - b. Use the **C** (Copy) or **R** (Replace) action against the panels you want to copy.
 - Note: For more information, press F1 (Help).
 - When all requested panels have been copied, press F3 (Exit) to return to the MODS: Panel Library Maintenance Menu.
- 3. Delete the temporary panel library definition using the following steps:
 - a. Select L Library Definitions.
 - The MODS: Library Definition Menu appears.
 - Select U Remove Library Definition, Close and Unallocate, and specify the library name (for example OLDPANLS).

The temporary panels library definition is removed.

Note: For more information about the MODS Panel Library Maintenance facility, see the *Managed Object Development Services Guide*.

OSCNTL File Migration

The format of the OSCNTL file is unchanged. If your existing OSCNTL file contains installation-defined ASN.1 maps, recompile them in the new product region.

Add the data set containing the map source to the COMMANDS concatenation in your new region. To compile a map, use the Compile Map option of Mapping Services. To access the Mapping Services Primary Menu, enter /MAPMENU from any panel.

Note: For more information about Mapping Services, see the *Managed Object Development Services Guide*.

Appendix A: Worksheets

This section contains the following topics:

Preparation Worksheets (see page 97) Post-installation Worksheet (see page 105)

Preparation Worksheets

During the installation and setup process, you enter values that are used to do the following:

- Allocate data sets.
- Set initial parameters.
- Prepare for the use of your product.

You can print out the worksheets in this section to record the values needed for your site when installing the product.

Note: For information about data sets, see the Reference Guide.

Installation

This worksheet helps you gather information required for installation.

Job Information

Gather the following job information:
Batch job class
Record the value that your site uses here:
Class =
Default: A
Batch job class for tape mounts
(Tape only) Record the value that your site uses here:
Class =
Instructions to operator
Record any instructions here:

Tape Unloading

If you are installing from tape, gather the following information related to tape

umbaumg.
Tape unit
Record the value that your site uses for UNIT=?device_in here:
UNIT =
Example: CART
Tape volume serial number
Record the value that your site uses for VOL=SER=?tapeser here:
VOL=SER =
Example: C2D760
Tape expiry date
Record the values that your site uses here:
Expiry Date =
Example: 98000
Gather the following information related to the DASD to which the software is unloaded:
Data set prefix
Do not include the name of your planned product region.
Limits: Maximum 29 characters
Record the value that your site uses here:
?dsnpref =
DASD unit
Record the value that your site uses here:
?device_out =
DASD volume serial number
Record the value that your site uses here:
?volser =

Unload DASD

Gather the following information related to the DASD to which the software is unloaded:

Data set prefix

Do not include the name of your planned product region.

Limits: Maximum 29 characters

Record the value that your site uses here:

?dsnpref = _______

DASD unit

Record the value that your site uses here:
?device_out = _____

DASD volume serial number

Record the value that your site uses here:

?volser = _____

Installation Parameters

Gather the following information related to installation parameters:

Allocation Parameters

Use these prefixes for high-level qualifiers for the different data set groups.

Record the values that your site uses here:

SMP/E Target

Data Set Prefix = _____

Management class = _____

Storage class = _____

Volume serial number = _____

Unit = _____

SMP/E Distribution

Data Set Prefix = _____

Management class = _____

Storage class = _____

Volume serial number = _____

Unit = _____

SMP/E Libraries
Data Set Prefix =
Management class =
Storage class =
Volume serial number =
Unit =
SMP/E CSI
Data Set Prefix =
Management class =
Storage class =
Volume serial number =
SMPTLIB
Data Set Prefix =
Volume serial number =
Unit =
Language Environment Parameters
Record these language environment values:
Language Environment link-edit input 2
Record the value that your site uses here:
SCEEBND2 =
Default: CEE.SCEEBND2
Language Environment link-edit input
Record the value that your site uses here:
SCEELIB =
Default: CEE.SCEELIB
Language Environment library
Record the value that your site uses here:
SCEELKED =
Default: CEE SCEELKED

	System Programmer C routines	
	Record the value that your site uses here:	
	SCEESPC =	
	Default: CEE.SCEESPC	
	IBM macros	
	Record the value that your site uses here:	
	MODGEN =	
	Default: SYS1.MODGEN	
	Data set that contains the GIMZPOOL member	
Record the value that your site uses here:		
	Default: SYS1.MACLIB	
Region Setup		
	This worksheet helps you gather information required for region setup.	
Product Region		
	Gather the following information about the product region:	
	Product region started task name (rname)	
	Record the value that your site uses here:	
	Default: NM	
	Product region SYSIN member name	
	Record the value that your site uses here:	
	SYSIN =	
	Default: RUNSYSIN	

Primary VIAINI ACB name for the product region
Record the value that your site uses here:
PRI =
Default: NM
Mixed case passwords
Specifies whether case is preserved (YES) or forced to uppercase (NO):
<u> </u>
Default: NO
Security exit setting (NO PARTSAF NMSAF NMSAFF Imname)
Record the value that your site uses here:
SEC =
Default: NO
Note: For more information about setting your security exit, see the Security Guide
SYSOUT
Specifies SYSOUT subparameters. You can specify a class, a writer, and a form.
Default: *
Prefix for VSAM data sets local to the product region
Record the value that your site uses here:
Default: dsnpref.rname
Prefix for sequential data sets local to the product region
Record the value that your site uses here:
Default: dsnpref.rname
Prefix for TESTEXEC
Record the value that your site uses here:
Default: dsnpref.rname

VTAM Definitions

Prefix for UAMS or full name of existing UAMS
Record the value that your site uses here:
Default: dsnpref
Prefix for shareable VSAM data sets
Record the value that your site uses here:
Default: dsnpref.NMC1
Prefix for shareable PARMLIB data sets
Record the value that your site uses here:
Default: dsnpref.NMC1.PARMLIB
Gather the following information related to VTAM definitions: VTAM major node name
Record the value that your site uses here:
Default: VTAMAPPL
System macro library
Record the value that your site uses here:
Default: SYS1.MACLIB
VTAM network definitions library
Record the value that your site uses here:
Default: SYS1.VTAMLST
VTAM macro library
Record the value that your site uses here:
Default: SYS1.SISTMAC1

VTAM load library

Record the value that your site uses here:

Default: SYS1.VTAMLIB

Startup Tasks

This worksheet helps you gather information related to the startup tasks.

Initial administrator user ID

Record the value that your site uses here:

Initial administrator password

Record the value that your site uses here:

Post-installation Worksheet

After you have completed the installation and setup processes, you can record the data set names generated by the Install Utility for future reference.

You can print out the following worksheet now, and record this information as you progress through this guide.

Installation data set

Record the value generated by the Install Utility here:

Default: dsnpref.NMC1.CC2DJCL

Installation JCL data set

Record the value generated by the Install Utility here:

Default: dsnpref.NMC1.INSTALL.JCL

Product region setup JCL data set

Record the value generated by the Install Utility here:

 $\textbf{Default:} \ dsnpref. \texttt{NMC1}. rname. \texttt{JCL}$

VTAM JCL data set

Record the value generated by the Install Utility here:

Default: dsnpref.NMC1.VTAM.JCL

Appendix B: Defining UNIX System Services Authorization

This section contains the following topics:

<u>USS Authorization Requirements</u> (see page 107) Set Up OMVS Segment (see page 107)

USS Authorization Requirements

To complete this task you must have the following:

- Administrative access to your security package
- OMVS shell write privileges

To authorize a user, you can use one of the following:

- Default OMVS segment
- Specific OMVS segment

Set Up OMVS Segment

Use this procedure to set up an OMVS segment.

Follow these steps:

1. Assign an OMVS UID number to each user ID. If your security administrator does *not* have a policy for assigning OMVS UID numbers, use a unique number.

Note: For more information about OMVS UID numbers, see the IBM *UNIX System Services Planning* guide.

- 2. Define the OMVS segment for the user. For a user ID *uuuuuuu* and UID number *nnn*, enter the following commands:
 - For CA ACF2 for z/OS systems, enter the following commands:

```
SET PROFILE(USER) DIV(OMVS)
INSERT uuuuuuu UID(nnn) HOME(/) PROGRAM(/bin/sh)
```

■ For CA Top Secret for z/OS systems, enter the following commands:

```
TSS ADD(uuuuuuu) HOME(/) OMVSPGM(/bin/sh) UID(nnn) GROUP(OMVSGRP)
```

For RACF systems, enter the following command:

```
ALU uuuuuuu OMVS(UID(nnn) HOME(/) PROGRAM(/bin/sh))
```

Note: The OMVS segment must contain a home directory (HOME) and a login shell (PROGRAM or OMVSPGM).

- 3. Complete this process for each user ID that you want to authorize. To confirm the contents of the OMVS segment, enter the following commands:
 - For CA ACF2 for z/OS systems, enter the following commands:

```
SET PROFILE(USER) DIV(OMVS)
LIST uuuuuu
```

■ For CA Top Secret for z/OS systems, enter the following command:

```
TSS LIS(uuuuuu) DATA(ALL)
```

■ For RACF systems, enter the following command:

```
LISTUSER uuuuuu OMVS NORACF
```

4. Assign a home directory to each user ID, and ensure that it exists and that the UID has at least READ access to it.

You can use the UNIX root directory (/) as shown in Step 2, or you can use a customized home directory name.

For example, to set up a directory named /u/name for UIDnnn, issue the following commands in the OMVS UNIX shell:

```
mkdir /u/name
chown nnn /u/name
chmod 777 /u/name
```

5. Confirm the owner and access to the directory by using the following command:

```
ls -ld /u/name
```

The following result appears:

```
drwxrwxrwx 2 user group 8192 Sep 31 14:58 /u/name
```

Appendix C: Tape Format

The following topics provide information about the function modification identifiers (FMIDs) and details about the format of the tapes that you receive to install your product.

Note: The tapes contain all files for all products in the CA Mainframe Network Management family of products. Only some of the files apply to your product, and therefore, only the files necessary to install your product are unloaded.

This section contains the following topics:

<u>FMID Descriptions</u> (see page 109) Format of Cartridge VOLSER C2D760 (see page 110)

FMID Descriptions

This product has the following FMIDs, which are codes that identify the release levels of a product:

CC11C10

Is the FMID for TCP/IP Services.

CC17C10

Is the FMID for File Transfer Services.

CC18C10

Is the FMID for SNA Automation Services.

CC2AC10

Is the FMID for SNA Services.

CC2D76E

Is the FMID for PDSE Services (ME).

CC2D76H

Is the FMID for Health Checker (HC).

CC2D76R

Is the FMID for ReportCenter.

CC2D760

Is the FMID for Management Services (MS).

CDEMC10

Is the FMID for FTS Services.

Format of Cartridge VOLSER C2D760

This table lists the file sequence numbers, data set names, and data set contents for the first tape.

Files	DSN	Contents
1	CAI.SAMPJCL	Installation and maintenance JCL members
2	CAI.SMPMCS	Modification control statements (MCSs) containing functions and all published SYSMODs for those functions
3	CAI.CC2D76H.F1	++DATA for CC2D76H (RECFM=FB)
4	CAI.CC2D76H.F2	++EXEC for CC2D76H
5	CAI.CC2D76H.F3	++MSG for CC2D76H
6	CAI.CC2D76H.F4	++PNL for CC2D76H
7	CAI.CC2D76H.F5	++SAMP for CC2D76H
8	CAI.CC2D76H.F6	++SKL for CC2D76H
9	CAI.CC2D76H.F7	++SKL for CC2D76H
10	CAI.CC2D76H.F8	NCAL-linked MODS for CC2D76H
11	CAI.CC2D760.F1	++CLIST for CC2D760
12	CAI.CC2D760.F2	++DATA for CC2D760 (RECFM=VB)
13	CAI.CC2D760.F3	++MAC for CC2D760 (Assembler)
14	CAI.CC2D760.F4	++MAC for CC2D760 (Assembler)
15	CAI.CC2D760.F5	++MAC for CC2D760
16	CAI.CC2D760.F6	++MAC for CC2D760 (OML)
17	CAI.CC2D760.F7	++MAC for CC2D760 (REXX)
18	CAI.CC2D760.F8	NCAL-linked MODS for CC2D760
19	CAI.CC2D760.F9	NCAL-linked MODS for CC2D760
20	CAI.CC2D760.F10	++PROGRAM for CC2D760
21	CAI.CC2D760.F11	++SAMP for CC2D760

Files	DSN	Contents
22	CAI.CC2D760.F12	++SAMP for CC2D760
23	CAI.CC2D760.F13	++SAMP for CC2D760
24	CAI.CC2D760.F14	++SAMP for CC2D760
25	CAI.CC2D760.F15	++SAMP for CC2D760
26	CAI.CC2D760.F16	++SRC for CC2D760
27	CAI.CC11C10.F1	++DATA for CC11C10 (RECFM=VB)
28	CAI.CC11C10.F2	++MAC for CC11C10
29	CAI.CC11C10.F3	++MAC for CC11C10 (OML)
30	CAI.CC11C10.F4	XML data for CA MSM
31	CAI.CC17C10.F1	++DATA for CC17C10 (RECFM=VB)
32	CAI.CC17C10.F2	++MAC for CC17C10
33	CAI.CC17C10.F3	++MAC for CC17C10 (Assembler)
34	CAI.CC17C10.F4	++MAC for CC17C10 (OML)
35	CAI.CC17C10.F5	XML data for CA MSM
36	CAI.CC17C10.F6	++SAMP for CC17C10
37	CAI.CC17C10.F7	++SAMP for CC17C10
38	CAI.CC17C10.F7	++SAMP for CC17C10
39	CAI.CC18C10.F1	++DATA for CC18C10 (RECFM=FB)
40	CAI.CC18C10.F2	++DATA for CC18C10 (RECFM=VB)
41	CAI.CC18C10.F3	++MAC for CC18C10
42	CAI.CC18C10.F4	++MAC for CC18C10 (OML)
43	CAI.CC18C10.F5	XML data for CA MSM
44	CAI.CC2AC10.F1	++DATA for CC2AC10 (RECFM=VB)
45	CAI.CC2AC10.F2	++MAC for CC2AC10
46	CAI.CC2AC10.F3	++MAC for CC2AC10 (OML)
47	CAI.CC2AC10.F4	XML data for CA MSM
48	CAI.CC2AC10.F5	++SAMP for CC2AC10
49	CAI.CDEMC10.F1	++CLIST for CDEMC10
50	CAI.CDEMC10.F2	++DATA for CDEMC10 (RECFM=VB)
51	CAI.CDEMC10.F3	++MAC for CDEMC10

Files	DSN	Contents
52	CAI.CDEMC10.F4	++MAC for CDEMC10 (OML)
53	CAI.CDEMC10.F5	++MSG for CDEMC10
54	CAI.CDEMC10.F6	++PAN for CDEMC10
55	CAI.CDEMC10.F7	XML data for CA MSM
56	CAI.CC2D76E.F1	NCAL-linked MODS for CC2D76E
57	CAI.CC2D76R.F1	++HFS for CC2D76R
58	CAI.CC2D76R.F2	++SHELLSCR for CC2D76R

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